

State Expert Appraisal Committee (SEAC)

Minutes of 416th meeting of the State Expert Appraisal Committee (SEAC) held on 13.10.2023 (Friday) at SEIAA Conference Hall, 2nd Floor, Panagal Maligai, Saidapet, Chennai 600 015 for consideration of Building and Construction projects and Mining projects.

Confirmation of Earlier Minutes

The minutes of the 415th SEAC meeting held on 12.10.2023 were circulated to the Members in advance and as there are no remarks, the Committee decided to confirm the minutes.

Agenda No: 416 - 01

(File No: 10354/2023)

Proposed Grey Granite quarry lease over an extent of 1.36.8 Ha at SF.Nos. 341/1 (Part) of Soolamalalai Village, Bargur Taluk, Krishnagiri District, Tamil Nadu by Thiru. Salman Sathar - For Terms of Reference. (SIA/TN/MIN/441102/2023, Dated: 21.08.2023)

The proposal was placed for appraisal in this 416th SEAC meeting held on 13.10.2023. The details of the project furnished by the proponent are given in the website parivesh.nic.in). The SEAC noted the following:

1. The project proponent, Thiru. Salman Sathar has applied for Terms of Reference for the Proposed Grey Granite quarry lease over an extent of 1.36.8 Ha at SF.Nos. 341/1 (Part) of Soolamalalai Village, Bargur Taluk, Krishnagiri District, Tamil Nadu.
2. The project/activity is covered under Schedule 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. As per the mining plan, the lease period is for 20 years. The production not to exceed 34,180m³ of RoM, 11,963 m³ of grey granite (Recovery @ 35%) & 22,217m³ of Granite Waste (@65%) to an ultimate depth of Mining 23m Below ground level.

Now, the proposal was placed in the 416th SEAC meeting held on 13.10.2023. Based on the presentation made by the proponent SEAC recommended grant of Terms of Reference (TOR) with Public Hearing, subject to the following TORs as per the


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Annexure I of this minute, in addition to the standard terms of reference for EIA study for non-coal mining projects and details issued by the MOEF & CC to be included in EIA/EMP Report:

1. The proponent shall transplant the Banyan tree, that is in the proposed mining area, to a new place outside the mining area and the evidence for transplantation in the form of photograph/videograph must be submitted along with EIA report.
2. The PP shall mark the DGPS reference pillars painted with blue & white colour indicating the safety barrier of 7.5 m to be left under the Rule 13 (1) of MCDR, 1988 within the lease boundary and protective bunds.
3. The PP shall develop Green belt/plantation all along the mining lease boundary in a safety barrier.
4. The PP shall furnish the total manpower required for the proposed mining project including Statutory officials, Geologist, Supervisory staff, Skilled, Semi-skilled & Unskilled staff with showing the representation of the local people as per their eligibility and experience.

Agenda No: 416 - 02

(File No: 10368/2023)

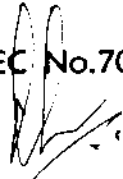
Proposed Rough stone quarry lease over an extent of 3.00.0 Ha at SF.Nos. 202/1 (PART- A) of Kondappanayanapalli Village, Krishnagiri Taluk, Krishnagiri District, Tamil Nadu by M/s. Sri Venkateshwara Blue Metals - For Terms of Reference.

(SIA/TN/MIN/442329/2023, Dated: 29.08.2023)

The proposal was placed for appraisal in this 416th SEAC meeting held on 13.10.2023. The details of the project furnished by the proponent are given in the website parivesh.nic.in). The SEAC noted the following:

1. The project proponent, M/s. Sri Venkateshwara Blue Metals has applied for Terms of Reference for the Proposed Rough stone quarry lease over an extent of 3.00.0 Ha at SF.Nos. 202/1 (PART- A) of Kondappanayanapalli Village, Krishnagiri Taluk, Krishnagiri District, Tamil Nadu.
2. The project/activity is covered under Schedule 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. Obtained EC From DEIAA File No. Lr. No. 03/DEIAA-KGI/ EC No.70/2018.


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Dated: 27.8.2018.

Now, the proposal was placed in the 416th SEAC meeting held on 13.10.2023. Based on the presentation made by the proponent SEAC recommended grant of Terms of Reference (TOR) with Public Hearing, subject to the following TORs, as per the Annexure I of this minute, in addition to the standard terms of reference for EIA study for non-coal mining projects and details issued by the MOEF & CC to be included in EIA/EMP Report:

1. The proponent is requested to carry out a survey and enumerate on the structures located within the radius of (i) 50 m, (ii) 100 m, (iii) 200 m and (iv) 300 m (v) 500m shall be enumerated with details such as dwelling houses with number of occupants, whether it belongs to the owner (or) not, places of worship, industries, factories, sheds, etc with indicating the owner of the building, nature of construction, age of the building, number of residents, their profession and income, etc.
2. The proponent shall discuss in detail regarding the drainage pattern and discuss about the mitigation measures in the EIA report.
3. The proponent shall obtain the details regarding the validity of the lease period from the AD (Mines) while submitting the EIA report.

Agenda No: 416 – 03

(File No: 10382/2023)

Proposed Rough Stone & Gravel quarry lease over an extent of 1.08.0 Ha at S.F.Nos. 199/6A of Appayanaickenpatti Village, Vembakottai Taluk, Virudhunagar District, Tamil Nadu by Thiru. R. Gopalakrishnan - For Terms of Reference. (SIA/TN/MIN/439532/2023, Dated: 08.08.2023)

The proposal was placed for appraisal in this 416th SEAC meeting held on 13.10.2023. The details of the project furnished by the proponent are given in the website parivesh.nic.in). The SEAC noted the following:

1. The project proponent, Thiru. R. Gopalakrishnan has applied for Terms of Reference for the Proposed Rough Stone & Gravel quarry lease over an extent of 1.08.0 Ha at S.F.Nos. 199/6A of Appayanaickenpatti Village, Vembakottai Taluk, Virudhunagar District, Tamil Nadu.


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2. The project/activity is covered under Schedule 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.

Now, the proposal was placed in the 416th SEAC meeting held on 13.10.2023. Based on the presentation & documents furnished by the PP, the SEAC noted the following:

1. Earlier three proposals belonging to the same cluster was appraised in 399th SEAC meeting held on 10.08.2023 and 400th SEAC meeting held on 11.08.2023. The following decision was taken by the Committee during the appraisal.
 1. An educational institution, namely, PSR Engineering College, with 5800 Nos. of students & 500 teachers, is located very close (within 500m) to the proposed quarry. Further, 1800 students are residing in the college hostel.
 2. It is also noted that based on the Writ Petitions filed in the Hon'ble High Court against operation of mines in the area, the Hon'ble High Court had appointed an Advocate Commissioner to inspect the site and give a report. The Commission appointed by the Court had inspected site and submitted detailed report to the Court stating, among others, that "...The staff of the college and the counsel for the college had shown several broken window glass panes and shown cracks in several buildings but without expertise and assistance of a structural engineer and other experts to gauge the effect of explosion and it's impact on the buildings it is not possible for me say anything on the subject, however on 09.07.2021 we could hear explosive noise between 5 pm to 6 pm while inspecting near the workshop building in PSR Engineering College".
 3. There are considerable number of structures located nearby.
 4. Besides, the proposed site is also surrounded by the presence of fireworks and Vaippar River.
 5. The proposed mining activity involves blasting and there were serious complaints by the public during the PH held for the other proposals, for the safety of the persons.

Hence, considering the above facts, the Committee decided not to recommend the proposal.

Since the locational factors are identical and as already three proposals belonging to the same cluster were appraised and not recommended based on the sensitivity of the proposed site, the Committee decided not to recommend this proposal for Terms of Reference.

Agenda No: 416-04


(File No.10383/2023)

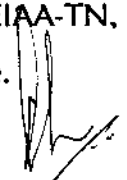
Proposed Black Granite Quarry Lease over an Extent of 166.92.0 Ha of S.F.Nos. 917(P) & 921(P) of Mahimandalam Village, Katpadi Taluk, Vellore District, Tamil Nadu by M/s. Tamil Nadu Minerals Limited – For Terms of Reference (SIA/TN/MIN/442625/2023, dt.04.09.2023)

The proposal was placed in the 416th meeting of SEAC held on 13.10.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, M/s. Tamil Nadu Minerals Limited has applied for Terms of Reference for the Proposed Black Granite Quarry Lease over an Extent of 166.92.0 Ha of S.F.Nos. 917(P) & 921(P) of Mahimandalam Village, Katpadi Taluk, Vellore District, Tamil Nadu.
2. The project/activity is covered under Category “B1” of Item 1(a) “Mining of Minerals Projects” of the Schedule to the EIA Notification, 2006.
3. The proposed mine was in operation since 1995.
4. Earlier, the proponent has obtained EC under violation category from MoEF&CC (since the total extent of the quarry was greater than 100Ha) vide F.No.23-203/2018-IA.III(V) dated.09.04.2021.
5. The earlier EC expired on 22.11.2022 since the lease expired on 22.11.2022.
6. Subsequently, the proponent has submitted an application for renewal of mining lease for a period of 20 years and the precise area for the same was communicated by the Additional Chief Secretary to Govt. of Industries, Investment Promotion & Commerce Department vide Letter No.3865290/MME.1/2023-1, dated.13.03.2023.
7. Subsequently, the proponent has submitted an application at SEIAA-TN, seeking Terms of Reference for the project with details stated as above.


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Based on the presentation made by the proponent, SEAC decided to recommend the proposal for Terms of Reference (TOR) with Public Hearing subject to the following additional TORs & ToRs in Annexure of this minutes, in addition to the standard terms of reference for EIA study for non-coal mining projects and details issued by the MOEF & CC to be included in EIA/EMP Report:


1. The project proponent shall submit a Certified Compliance Report as per the MoEF&CC O.M dated.08.06.2022 for the previous EC obtained from MoEF&CC dated.09.04.2021.
2. The proponent shall develop greenbelt in the entire lease area except the ridge where the mining activity is proposed and shall submit photographs/videographs proof for the same.
3. As a part of Corporate Environment Responsibility, the proponent shall explore the possibilities of developing auditoriums, science labs, smart classrooms, toilets, greenbelt, etc. towards Government Schools in the locality.
4. The PP shall mark the DGPS reference pillars painted with blue & white colour indicating the safety barrier of 7.5 m to be left under the Rule 13 (1) of MCDR, 1988 within the lease boundary and protective bunds.
5. The PP shall develop Green belt/plantation all along the mining lease boundary in a safety barrier.
6. The PP shall furnish the total manpower required for the proposed mining project including Statutory officials, Geologist, Supervisory staff, Skilled, Semi-skilled & Unskilled staff with showing the representation of the local people as per their eligibility and experience.

Agenda No: 416-05

(File No.7915/2023)

Amendment Request in Environmental Clearance issued for the Proposed Construction of 736 Tenements (Existing 60 & Proposed 676) at Survey No.4123/1 (Pt) of Andimanya Thottam, Myalapore Taluk, Chennai District, Tamil Nadu by M/s. Tamil Nadu Slum Clearance Board. (SIA/TN/MIS/303279/2023 dt.10.03.2022)

The proposal was placed in this 416th Meeting of SEAC held on 13.10.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).


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The SEAC noted the following:

1. The project proponent, M/s. Tamil Nadu Slum Clearance Board has applied for an amendment in the Environmental Clearance issued for the Proposed Construction of 736 Tenements (Existing 60 & Proposed 676) at Survey No.4123/1 (Pt) of Andimanya Thottam, Mylapore Taluk, Chennai District, Tamil Nadu.
2. Environmental Clearance was issued to the project proponent M/s. Slum Clearance Board vide Lr.No.SEIAA-TN/F.No.7915/EC/8(a)/809/2021 dated.10.03.2022 for the proposed construction of 736 EWS Tenements. The proposal involved a land area of 11552.25 Sq.m with a built-up area of 29,462.94 Sq.m.
3. Now, the proponent has submitted an application in Form – 4 vide Proposal No. SIA/TN/MIS/303279/2023 dated.17.08.2023, seeking the following amendments in the above-mentioned EC dated.10.03.2022.

S.No	Description	Existing EC	Amendment Sought	Remarks
1	Total Built up area	29462.94 Sq.m (Existing – 2203.58 Sqm & proposed – 27259.36 Sqm)	29289.29 Sq.m (Existing – 2203.58 Sqm & proposed – 27085.71 Sqm)	Decrease in Built up Area of 172.65 Sqm
2	No of Dwelling Units	736 Nos. (Existing – 60 DU's & Proposed – 676 DU's)	762 Nos. (Existing – 60 DU's & Proposed – 702 DU's)	Increase in the Dwelling unit of 26 Numbers
3	Number of Blocks	Block 1 – S +13 floors Block 2 – S +13 floors Block 3 – S +13 floors	Block A – S + 13 floors Block B – S +13 floors Block C – S + 4 floors	Block Alignment changes with increase of one block and

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			Block D – S + 5 floors	number of floor decreases
4	Project Description	Proposed Construction of 736 EWS Tenements (Existing – 60DU's & proposed – 676 DU's) with 3 blocks having S + 13 floors with total built up area of 29,462.94 Sqm (Existing – 2203.58 Sqm & Proposed – 27259.36 Sqm)	Proposed Construction of 762 EWS Tenements (Existing – 60 DU's & Proposed – 702 DU's) Comprised of 4 blocks (Block A – S + 13 Floors, Blocks B – S + 13 floors, Block C – S + 4 floors Block D – S + 5 floors) with total built up area of 29289.29 Sqm (Existing – 2203.58 Sqm & Proposed – 27085.71 Sqm)	Block Alignment changes with increase of one block and number of floor decreases
5	Cost of the Project	Rs. 85.41 Crores	Rs.118.53 Crores	Increase of Rs. 33.82 Crores
6	Water Requirement	Total Water Requirement – 482 KLD Fresh Water Requirement -311 KLD	Total Water Requirement – 529 KLD Fresh Water Requirement – 348 KLD	Increase of 47 kLD Increase of 37 kLD


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		Recycled Water – 164 KLD	Recycled Water – 181 KLD	Increase of 17 kLD
7	Treatment Plant	Grey Water treatment Plant – 300 KLD	Sewage Treatment Plant – 200 KLD	Earlier, grey water treatment plant was designed for full capacity. Now the sewage treatment plant is designed only for recycled water requirement.
8	Solid Waste Generation	Total Solid Waste Generation – 2119.4 kg/day Biodegradable Solid Waste – 1271.64 kg/day Non- biodegradable Solid Waste – 847.76 kg/day	Total Solid waste generation – 1943 kg/day Biodegradable Solid Waste – 777.2 kg/day Non- biodegradable Solid Waste – 1165.8 kg/day	Increase of 205 kg/day Decrease of 342 kg/day Increase of 546.6 kg/day

Based on the presentation and details furnished by the project proponent, the Committee noted that the proponent has modified the building plan and subsequently there is increase in the no. of blocks, dwelling units, water requirement, etc.


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In view of the above, the Committee noted that the above proposal falls under Expansion. Hence, the SEAC decided that the proponent shall withdraw the current proposal applied for amendment and submit a fresh proposal under Expansion through PARIVESH Portal along with necessary documents.

Agenda No: 416-06

(File No.6753/2023)

Amendment Request in Environmental Clearance issued for the Proposed Construction of 418 HIG Flats at Koyambedu Village under SAFGV Scheme in T.S. No.1/1 (Part), Block No.64, Koyambedu Village, Aminjikarai Taluk, Chennai District, Tamil Nadu by M/s. Tamil Nadu Housing Board (SIA/TN/MIS/303285/2023 dt.17.08.2023)

The proposal was placed in this 416th Meeting of SEAC held on 13.10.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:


1. The project proponent, M/s. Tamil Nadu Housing Board has applied for Amendment Request in Environmental Clearance issued for the Proposed Construction of 418 HIG Flats at Koyambedu Village under SAFGV Scheme in T.S. No.1/1 (Part), Block No.64, Koyambedu Village, Aminjikarai Taluk, Chennai District, Tamil Nadu.
2. EC was issued to the project proponent M/s. Tamil Nadu Housing Board vide Lr.No.SEIAA-TN/F.No.6753/EC/8(a)/652/2019 dated.17.06.2019. EC was accorded for a land area of 17150.80 Sq.m and a built-up area of 62566.273 Sq.m.
3. Subsequently, the proponent has obtained an amendment in the above-mentioned EC vide letter dated.25.03.2022, to dispose the untreated effluent into CMWSSB sewer line.
4. Now, the proponent has again submitted an application in Form – 4 vide Proposal No. SIA/TN/MIS/303285/2023 dated.17.08.2023, seeking the following amendments in the above-mentioned EC dated.17.06.2019.

S.No	Description	Existing EC	Amendment Sought	Remarks


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1	Survey Number	T.S.No.1/1 (part), Block No.64	T.S.No.1/1 (Part), Block No.64 (as per TSLR, T.S.No.1/14, 1/15 Ward-01, Block No.64, Jawaharlal Nehru Salai)	Revenue Details
2	Taluk	Aminjikarai	Egmore – Nungambakkam	Revenue Details
3	No. of Blocks	5 Blocks of (S+19) and one club house	4 Blocks namely Block-A, Block-B, Tower – 1&2, Block – C Tower-1&@ and Block-D Club House.	Nomenclature Change
4	Plot Area	17150.8m ²	17298.6m ²	A marginal increase of 147.8 m ² while carving out the area from total land transferred to SAF Scheme, as observed during recent revenue survey.
5	Plot Coverage	3509.35m ²	3518.96m ²	Increased by 9.61 m ² due to inclusion of lift area.


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6	FSI Ratio	3.648	3.71	Increased by 0.062 due to change in Built-up Area.
7	Built-up Area	62,566.273m ²	65270.62m ²	Increased by 2,704.347 m ² (4.23% increase) due to variation in calculation arrived by the department (excluding the lift area) & CMDA (including the lift area as per TNCDBR Rules, 2019).

Based on the presentation and details furnished by the project proponent, the Committee noted that the above-mentioned increase in the plot area, plot coverage, built-up area & FSI are due to the variation in calculation and there is no change in building plan as such for which EC dated.17.06.2019 was accorded.

In view of the above, the SEAC decided to recommend the above-mentioned amendments, as requested, in the existing EC dated.17.06.2019 subject to the following conditions:

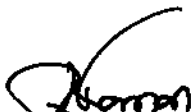
- i) All other conditions and validity mentioned in the EC dated.17.06.2019 & 25.03.2022 shall remain unchanged and unaltered.

Agenda No: 416 - 07

(File No: 10363/2023)

Proposed Rough stone & Gravel Quarry over an extent of 2.38.0Ha at SF.Nos. 134/1, 134/4, 134/5B, 134/6 & 134/7 of Padalur East Village, Alathur Taluk, Perambalur District, Tamil Nadu by M/s. P.S. Mines and Minerals - For Terms of Reference.

(SIA/TN/MIN/440911/2023, Dated:19.08.2023)


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The proposal was placed in the 416th SEAC Meeting held on 13.10.2023. The details of the project furnished by the proponent are given on the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, M/s. P.S. Mines and Minerals has applied for Terms of Reference for the Proposed Rough stone & Gravel Quarry over an extent of 2.38.0Ha at SF.Nos. 134/1, 134/4, 134/5B, 134/6 & 134/7 of Padalur East Village, Alathur Taluk, Perambalur District, Tamil Nadu.
2. The project/activity is covered under Category "B1" of Item 1(a) " Mining of mineral of the Schedule to the EIA Notification, 2006.
3. The lease period is for 10 years. The mining plan is for the period of five years & the production should not exceed 2,64,038m³ of rough stone & 27,512m³ of Gravel with an ultimate depth of mining is 40m BGL. The annual peak production is 59,360m³ of rough stone & 9,536m³ of Gravel.

Based on the presentation made by the proponent, SEAC decided to recommend for grant of Terms of Reference (TOR) with Public Hearing, subject to the following TORs, and subject to the standard conditions as per the Annexure I of this minutes ,in addition to the standard terms of reference for EIA study for non-coal mining projects and details issued by the MOEF & CC to be included in EIA/EMP Report:

1. The PP shall furnish ownership details of all survey numbers in EIA report.
2. The PP shall submit the 'Action Plan' on the issues raised during the Public Hearing with budgetary provisions for the same.
3. The PP shall submit the controlled blasting measures for reducing the impacts due to the blasting operation in the proposed quarries within 1 km of the proposed quarry.
4. The PP shall submit a 'Conceptual Mining Plan' indicating the accessible ramp from the surface to the pit bottom keeping the benches intact for the dimension as stipulated in the Approved Mining Plan.
5. The PP shall submit the nature of buildings/structures, occupants and their profession, etc located within 500 m radius of the proposed quarry.


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Agenda No: 416 - 08

(File No: 10405/2023)

Proposed Rough stone Quarry over an extent of 2.50.0Ha at SF.No. 1372/1 (Part-6) of Kamayagoundanpatti Village, Uthamapalayam Taluk, Theni District, Tamil Nadu by M/s. Sangili Karuppan Thanneer Parai Kaludaikum Magalir Nalasangam - For Terms of Reference. (SIA/TN/MIN/444551/2023, Dated:16.09.2023)


The proposal was placed in the 416th SEAC Meeting held on 13.10.2023. The details of the project furnished by the proponent are given on the website (parivesh.nic.in).

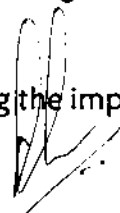
The SEAC noted the following:

1. The Project Proponent, M/s. Sangili Karuppan Thanneer Parai Kaludaikum Magalir Nalasangam has applied for Terms of Reference for the Proposed Rough stone Quarry over an extent of 2.50.0Ha at SF.No.1372/1(Part-6) of Kamayagoundanpatti Village, Uthamapalayam Taluk, Theni District, Tamil Nadu.
2. The project/activity is covered under Category "B1" of Item 1(a) " Mining of mineral of the Schedule to the EIA Notification, 2006.
3. The lease period is for 5 years. The mining plan is for the period of five years & the production should not exceed 3,55,733m³ of Rough stone & 3,914m³ of Topsoil with an ultimate depth of mining is 65m. The annual peak production is 73,965m³ of rough stone & 3,914m³ of Topsoil.

Based on the presentation made by the proponent, SEAC decided to recommend for grant of Terms of Reference (TOR) with Public Hearing, subject to the following TORs, and subject to the standard conditions as per the Annexure I of this minute, in addition to the standard terms of reference for EIA study for non-coal mining projects and details issued by the MOEF & CC to be included in EIA/EMP Report:

1. The PP shall furnish ownership details of all survey numbers in EIA report.
2. Since Megamalai Wild Life Sanctuary is located at a distance of 1.04km, the PP shall discuss about the conservation measures in the EIA Report.
3. The PP shall submit the 'Action Plan' on the issues raised during the Public Hearing with budgetary provisions for the same.
4. The PP shall submit the controlled blasting measures for reducing the impacts due


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to the blasting operation in the proposed quarries within 1 km of the proposed quarry.


5. The PP shall submit a 'Conceptual Mining Plan' indicating the accessible ramp from the surface to the pit bottom keeping the benches intact for the dimension as stipulated in the Approved Mining Plan.
6. The PP shall submit the nature of buildings/structures, occupants and their profession, etc located within 500 m radius of the proposed quarry.
7. The PP shall mark the DGPS reference pillars painted with blue & white colour indicating the safety barrier of 7.5 m to be left under the Rule 13 (1) of MCDR, 1988 within the lease boundary and protective bunds.
8. The PP shall develop Green belt/plantation all along the mining lease boundary in a safety barrier.
9. The PP shall furnish the total manpower required for the proposed mining project including Statutory officials, Geologist, Supervisory staff, Skilled, Semi-skilled & Unskilled staff with showing the representation of the local people as per their eligibility and experience.

Agenda No: 416 - 09

(File No: 10097/2023)

Proposed Construction of Fintech Tower at Fintech City at Plot no S7, Survey No: 122, 123, 125, 126, 131/1, 132, 134 of Nandambakkam Village, Alandur Taluk, Chennai District, Tamil Nadu by M/s. Tamil Nadu Industrial Development Corporation Ltd (TIDCO) - For Corrigendum in Environmental Clearance. (SIA/TN/MIS/302754/2023, Dated.01.08.2023) The SEAC noted the following:

1. Earlier EC was issued vide Lr.No.SEIAA-TN/F.No.10097/EC/8(a)/949/2023 dated 14.06.2023.
2. Now the PP has applied for Corrigendum in Environmental Clearance.
3. The proposal was placed in the 657th Authority meeting held on 25.09.2023. The authority noted that the proponent has applied for Corrigendum in EC issued vide Lr.No.SEIAA-TN/F.No.10097/EC/8(a)/949/2023 dated 14.06.2023. In the view of the above, Authority after detailed deliberation decided to forward the proponent's request to SEAC.


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Now the proposal was placed in the 416th SEAC Meeting held on 13.10.2023. The PP requested for Corrigendum in EC as follows,

S. No	REFERENCE: PAGE No/ SECTION No IN EC	AS PER EC	CORRECTION REQUESTED IN EC		
1.	Page no:2 Sub: in line No.2	Fintech City Commercial building	Fintech City - Commercial building		
2.	Page no:2 Last Paragraph, in line no 2 & 3	Fintech City Commercial building	Fintech City - Commercial building		
3.	Page no:3 SL. No 2 In line No.2	Fintech City Commercial building	Fintech City - Commercial building		
4.	Page no:5 SL. No 9 Total tree including compensation	805 Nos	809 Nos		
5.	Page no:5 SL. No 10 Parking facilities	Surface Parking 5107 sq. m Parking MLCP-2648 Sq.m	DESCRIPTION	4 WHEELER	2-WHEELER
			BASEMENT-02	80	420
			BASEMENT-01	77	420
			PODIUM 01	9	18
			PODIUM 02	9	51
			PODIUM 03	59	69
			SURFACE PARKING	13	24


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			TOTAL PARKING P1 to P3, B1 & B2	247	1002
6.	Page no:5 SL. No 11	Total Water Requiremen t (After expansion)	Total Water Requirement		
7.	Page no:5 SL. No 11	Recycled water- 283.83 KLD	Recycled water-277.87 KLD		
8.	Page no:6 SL. No 11 Point iv	Green belt (Recycled Water)	Green belt		
9.	Page no:6 SL. No 11 Point v	HVAC (Recycled Water)	HVAC		
10.	Page no:9 Point no. 10, in last line	Common stack	stack		
11.	Page no:11 Point no. 3 SEAC Recommendation s	Total plot area of the project is 7892.77 m ²	Total plot area of the project is 11948.98 m ²		
12.	Page no:12 SL. No 6 Max. No of Floors	13	12		

13.	Page no:12 SL. No 9 Project Activity:	Constructio n Of Fintech To	Construction of Fintech Tower
14.	Page no:12 SL. No 11 Proposed Ground Coverage Area	3744.11 Sq.m	3744.41 Sq.m
15.	Page no:12 SL. No 17 Fresh water requirement	247.92 KLD	275 KLD
16.	Page no:12 SL. No 18 Treated water requirement	185.5 KLD	277.87 KLD
17.	Page no:13 SL. No 27 Parking in Basements	0	997
18.	Page no:13 SL. No 31 Quantity of E- Waste Generation- Kg/Day	0	41.10
19.	Page no:13 SL. No 33 Quantity of Sludge Generated from STP	45	5


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CHAIRMAN
SEAC- TN

20.	Page no:13 SL. No 35 DG set backup	8000	4 Nos of 2000
21.	Page no:14 Population Commercial	6120	6129
22.	Page no:14 Population Total Visitors	918	919

In view of the above, the Committee decided to recommend the amendments requested for by the PP in Environmental Clearance, above subject to all the other conditions stipulated in EC vide Lr.No.SEIAA-TN/F.No.10097/EC/8(a)/949/2023 dated 14.06.2023 remaining unaltered.

Agenda No: 416-10

(File No: 10350/2023)

Proposed Rough Stone and Gravel quarry over an extent of 4.42.0 Ha at S.F. Nos. 91/1B, 91/1C, 91/1D(P), 91/1E, 91/1F(P), 92/1B, 92/1C, 92/1D, 92/1E, 92/1F & 95/1C of Karunsamygoundenpalayam Village, Madukkarai Taluk, Coimbatore District, Tamil Nadu by Thiru. M. Mohamed Nizam - For Terms of Reference. (SIA/TN/MIN/440551/2023, Dated: 16.08.2023)

The proposal was placed for appraisal in this 416th meeting of SEAC held on 13.10.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in). The SEAC noted the following:

1. The Project Proponent, Thiru. M. Mohamed Nizam has applied seeking Terms of Reference for the proposed Rough Stone and Gravel quarry over an extent of 4.42.0 Ha at S.F. Nos. 91/1B, 91/1C, 91/1D(P), 91/1E, 91/1F(P), 92/1B, 92/1C, 92/1D, 92/1E, 92/1F & 95/1C of Karunsamygoundenpalayam Village, Madukkarai Taluk, Coimbatore District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B1" of Item 1(a)


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SEAC- TN

“Mining Projects” of the Schedule to the EIA Notification, 2006, as amended.

3. The precise area communication was issued for the period of 5 Years. The mining plan is for 5 Years. The annual peak production shall not exceed 215939 m³ of Rough Stone (1st year) and 22232 m³ of Gravel (3rd year) for the ultimate depth of 57m below ground level.

Based on the presentation made by the project proponent, SEAC decided to recommend for grant of Terms of Reference (TOR) with Public Hearing, subject to the following TORs, in addition to the standard terms of reference for EIA study for non-coal mining projects and details issued by the MOEF & CC and additional ToR conditions given in ANNEXURE-I are to be included in EIA/EMP Report:

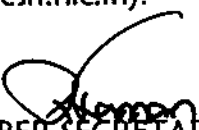
1. The proponent is requested to enumerate no. of existing trees and its age in the proposed quarry site and furnish the compensation details for the removal of existing trees.
2. The PP shall mark the DGPS reference pillars painted with blue & white colour indicating the safety barrier of 7.5 m to be left under the Rule 13 (1) of MCDR, 1988 within the lease boundary and protective bunds.
3. The PP shall develop Green belt/plantation all along the mining lease boundary in a safety barrier.
4. The PP shall furnish the total manpower required for the proposed mining project including Statutory officials, Geologist, Supervisory staff, Skilled, Semi-skilled & Unskilled staff with showing the representation of the local people as per their eligibility and experience.

Agenda No: 416-11

(File No: 10406/2023)

Proposed Rough Stone and Gravel quarry over an extent of 1.80.0 Ha at S.F. Nos. 1287/1 (Part) & 1287/3 of Punnam Village, Pugalur Taluk, Karur District, Tamil Nadu by Tmt. T. Sathya - For Terms of Reference. (SIA/TN/MIN/442933/2023, Dated: 20.09.2023)

The proposal was placed for appraisal in this 416th meeting of SEAC held on 13.10.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).


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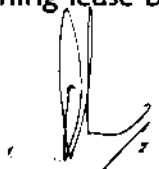
The SEAC noted the following:

1. The Project Proponent, Tmt. T. Sathya has applied seeking Terms of Reference for the proposed Rough Stone and Gravel quarry over an extent of 1.80.0 Ha at S.F. Nos. 1287/1 (Part) & 1287/3 of Punnam Village, Pugalur Taluk, Karur District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006, as amended.
3. The precise area communication was issued for the period of 5 Years. The mining plan is for 5 Years. The annual peak production shall not exceed 8414 m³ of Rough Stone for the ultimate depth of 25m below ground level.
4. Earlier, EC was accorded to the proponent vide Lr. No. SEIAA-TN/F.No.4274/1(a)/ EC. No:3883/2016 dated: 05.06.2017 for the quantity of 42254 cu.m of Rough Stone upto a depth of 14m.

Based on the presentation made by the project proponent, SEAC decided to recommend for grant of Terms of Reference (TOR) with Public Hearing, subject to the following TORs, in addition to the standard terms of reference for EIA study for non-coal mining projects and details issued by the MOEF & CC and additional ToR conditions given in ANNEXURE-I are to be included in EIA/EMP Report:

1. The PP shall obtain Certified Compliance Report (CCR) from Integrated Regional Office, MoEF&CC, Chennai for the earlier Environmental Clearance obtained from SEIAA-TN.
2. The proponent is requested to carry out a survey and enumerate on the structures located within 50m, 100m, 150m, 200m, 250m, 300m and 500m from the boundary of the mine lease area.
3. The PP shall furnish the slope stability action plan approved by the AD (Mines) during the EIA appraisal.
4. The PP shall mark the DGPS reference pillars painted with blue & white colour indicating the safety barrier of 7.5 m to be left under the Rule 13 (1) of MCDR, 1988 within the lease boundary and protective bunds.
5. The PP shall develop Green belt/plantation all along the mining lease boundary in a safety barrier.


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6. The PP shall furnish the total manpower required for the proposed mining project including Statutory officials, Geologist, Supervisory staff, Skilled, Semi-skilled & Unskilled staff with showing the representation of the local people as per their eligibility and experience.


Agenda No:416- 12

File No. 10358/2023

Proposed Rough Stone & Gravel Quarry lease over an extent of 4.30.5Ha (Patta Land) S.F. No's:171/1A (Part) and 171/1B (Part), Kuppam Village, Pugalur Taluk, Karur District by M/s. Shri Selva Vinaayaga Blue Metal - For Terms of Reference. (SIA/TN/MIN/441271/2023, dt: 22/08/2023)

The proposal was placed in the 416th SEAC Meeting held on 13.10.2023. The details of the minutes are available in the website (Parivesh.nic.in). The SEAC noted the following:

1. The project proponent, M/s. Shri Selva Vinaayaga Blue Metal has applied for Terms of Reference for the proposed Rough Stone & Gravel Quarry lease over an extent of 4.30.5Ha S.F. No's:171/1A (Part) and 171/1B (Part), Kuppam Village, Pugalur Taluk, Karur District, Tamil Nadu.
2. The project/activity is covered under Category "B1" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.
3. As per the precise area communication the lease period is for 5 years. The mining plan is for 5 Years. The Mineable reserve /production for 5 Years shall not to exceed 1048968m³ of Rough Stone & 74332m³ of Gravel and the ultimate depth of 50m BGL.
4. The proposed lease area was previously granted to quarrying of rough stone in favor of M/s. Tata Blue Metal by the District Collector, Karur proceedings vide Rc. D/149/2005, dated 08.09.2005 in S.F.No. 171/2 & 171/1A, Karur District, Aravakurichi Taluk, Kuppam Village, over an extent of 5.51.5hectares for a period of 5 years. The lease was executed 24.12.2005 to 23.12.2010 for a period of 5 Years.
5. 1st Renewal application for new proposals has submitted to the Deputy Director, Department of Geology and Mining (DDG & M), Karur dated 17.02.2023 and the Deputy Director, recommended to his precise area communication letter


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22


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Rc.No.64/Mines/2023 Dated: 14.07.2023 for period of five years recommended to favor of M/s. Shri Selva Vinaayaga Blue Metal, Karur for quarrying lease rough stone and gravel at Tamil Nadu State, Karur District, Pugalur Taluk, Kuppam Village in S.F.No: 171/1A (Part) (0.76.0Hect) and 171/1B (Part) (3.54.5Hect) over an extent of 4.30.5hectares . Pit -I – (62m(L) x 28m(W) x 2m (D)).

Based on the presentation and details furnished by the project proponent, SEAC decided to grant Terms of Reference (TOR) with Public Hearing subject to the standard terms of reference for EIA study for non-coal mining projects and details issued by the MOEF & CC and Annexure, to be included in EIA/EMP Report.

1. The proponent shall furnish registered land deed/lease agreement for all the Survey nos. of the proposed mining lease area.
2. The PP shall furnish the letter commenting the depth of 2 m quarried earlier in the same survey numbers from the concerned AD (Mines) after having inspected the site.
3. The structures within the radius of (i) 50 m, (ii) 100 m, (iii) 200 m and (iv) 300 m shall be enumerated with details such as dwelling houses with number of occupants, whether it belongs to the owner (or) not, places of worship, industries, factories, sheds, etc.
4. The Proponent shall provide a Controlled Blast design & Vibration Prediction for the structures located within 500 m from the lease boundary and any other sensitive structures.
5. The project proponent shall furnish details of photographs of adequate barbed fencing, greenbelt and garland drain around the boundary of the proposed quarry.
6. The Proponent shall submit a conceptual 'Slope Stability Plan' for the proposed quarry during the appraisal while obtaining the EC, when the depth of the working is extended beyond 30 m below ground level.
7. The proponent shall furnish a revised EMP budget for entire life of proposed mining including progressive mine closure plan.


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SEAC- TN

8. The PP shall mark the DGPS reference pillars painted with blue & white colour indicating the safety barrier of 7.5 m to be left under the Rule 13 (1) of MCDR, 1988 within the lease boundary and protective bunds.
9. The PP shall develop Green belt/plantation all along the mining lease boundary in a safety barrier.
10. The PP shall furnish the total manpower required for the proposed mining project including Statutory officials, Supervisory staff, Skilled, Semi-skilled & Unskilled staff with showing the representation of the local people as per their eligibility and experience.

Agenda No:416- 13


File No. 10365/2023


Proposed Grey Granite Quarry Project for Bismillah Export, Extent of 1.02.0Ha (Patta - Fresh) S.F.No.339/1 (Part) of Soolamalai Village, Bargur Taluk, Krishnagiri District by M/s. Bismillah Export - For Terms of Reference. (SIA/TN/MIN/441454/2023, dt: 23/08/2023)

The proposal was placed in the 416th SEAC Meeting held on 13.10.2023. The details of the minutes are available in the website (parivesh.nic.in). The SEAC noted the following:

1. The project proponent, M/s. Bismillah Export has applied for Terms of Reference for the proposed Grey Granite Quarry Project for Bismillah Export, Extent of 1.02.0Ha S.F.No.339/1 (Part) of Soolamalai Village, Bargur Taluk, Krishnagiri District, Tamil Nadu.
2. The project/activity is covered under Category "B1" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.
3. As per the precise area communication the lease period is for 20 Years. The mining plan is for 5 Years. The Mineable reserve /production for 5 Years shall not to exceed 25840m³ of RoM & 9044.0m³ of Recovery (35 %) Grey granite & 16796.0m³ of Granite Waste (65%) and the ultimate depth up to 18m BGL.

Based on the presentation and details furnished by the project proponent, SEAC decided to grant Terms of Reference (TOR) with Public Hearing subject to the following TORs, in addition to the standard terms of reference for EIA study for non-coal mining projects and details issued by the MOEF & CC and Annexure, to be included in EIA/EMP Report:


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1. The proponent shall furnish registered land deed/lease agreement for all the Survey nos. of the proposed mining lease area.
2. The structures within the radius of (i) 50 m, (ii) 100 m, (iii) 200 m and (iv) 300 m shall be enumerated with details such as dwelling houses with number of occupants, whether it belongs to the owner (or) not, places of worship, industries, factories, sheds, etc.
3. The Proponent shall provide a Controlled Blast design & Vibration Prediction for the structures located within 500 m from the lease boundary and any other sensitive structures.
4. The project proponent shall furnish details of photographs of adequate barbed fencing, greenbelt and garland drain around the boundary of the proposed quarry.
5. The Proponent shall submit a conceptual 'Slope Stability Plan' for the proposed quarry during the appraisal while obtaining the EC, when the depth of the working is extended beyond 30 m below ground level.
6. The proponent shall furnish a revised EMP budget for entire life of proposed mining including progressive mine closure plan.

Agenda No:416- 14

File No. 10386/2023

Existing Rough stone quarry project over an extent of 2.50.0Ha (Government Poramboke Land) at S.F.Nos.265(part-2), Mathakondapalli village, Denkanikottai Taluk, Krishnagiri District by Tmt. P. Sudha - For Terms of Reference. (SIA/TN/MIN/443228/2023, dt: 06/09/2023)

The proposal was placed in the 416th SEAC Meeting held on 13.10.2023. The details of the minutes are available in the website (parivesh.nic.in). The SEAC noted the following:

1. Earlier, the PP has obtained EC from DEIAALr.No.03/DEIAA-KGI/EC No.67/2018 dated: 27.08.2018 (EC Valid up to 26.08.2024) for production of 2772126 m³ of rough stone, & the depth of mining up to 115m BGL under B2 category (<25 Ha).
2. Existing Pit - 39m (15m AGL & 24m BGL).
3. MoEF&CC OM Dt: 28.04.2023



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4. The project proponent, Tmt.P.Sudha has applied for Terms of Reference for the existing Rough stone quarry project over an extent of 2.50.0Ha at S.F.Nos.265(part-2), Mathakondapalli village, Denkanikottai Taluk, Krishnagiri District, Tamil Nadu.
5. The project/activity is covered under Category "B1" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.
6. As per the precise area communication the lease period is for 5 years. The mining plan is for 5 Years. The Mineable reserve /production for 5 Years shall not to exceed 302975m³ and the ultimate depth of 48m BGL.

Based on the presentation and details furnished by the project proponent, SEAC decided to grant Terms of Reference (TOR) with Public Hearing subject to the following TORs, in addition to the standard terms of reference for EIA study for non-coal mining projects and details issued by the MOEF & CC and Annexure, to be included in EIA/EMP Report:

1. The PP shall furnish affidavits for stopping quarry operation as per MoEF&CC OM Dt:28.04.2023 and for the non-compliances mentioned in the Certified Compliance Report (CCR) obtained from IRO(SZ), MoEF&CC.
2. The project proponent shall furnish Certified Compliance Report (CCR) obtained from IRO(SZ), MoEF&CC and with mitigation measures for the non-compliance stated therein.
3. Details of Existing pit dimension, quantity of the mineral quarried and last transport permit for the earlier lease period from Dept. Of Geology & Mining.
4. Copy of 'No Objection Certificate' for the total penalty levied by the concerned AD/DD, Dept of Geology and Mining, and copy of remittance of total penalty by PP.
5. DFO letter regarding proximity of protected areas & reserve forests along with conservation measures.
6. The structures within the radius of (i) 50 m, (ii) 100 m, (iii) 200 m and (iv) 300 m shall be enumerated with details such as dwelling houses with number of occupants, whether it belongs to the owner (or) not, places of worship, industries, factories, sheds, etc.


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7. The Proponent shall provide a Controlled Blast design & Vibration Prediction for the structures located within 500 m from the lease boundary and any other sensitive structures.
8. The project proponent shall furnish details of photographs of adequate barbed fencing, greenbelt and garland drain around the boundary of the proposed quarry.
9. The Proponent shall submit a conceptual 'Slope Stability Plan' for the proposed quarry during the appraisal while obtaining the EC, when the depth of the working is extended beyond 30 m below ground level.
10. The proponent shall furnish a revised EMP budget for entire life of proposed mining including progressive mine closure plan.
11. The PP shall mark the DGPS reference pillars painted with blue & white colour indicating the safety barrier of 7.5 m to be left under the Rule 13 (1) of MCDR, 1988 within the lease boundary and protective bunds.
12. The PP shall develop Green belt/plantation all along the mining lease boundary in a safety barrier.
13. The PP shall furnish the total manpower required for the proposed mining project including Statutory officials, Supervisory staff, Skilled, Semi-skilled & Unskilled staff with showing the representation of the local people as per their eligibility and experience.

Agenda No:416- 15

File No. 10393/2023

Proposed Ordinary stone and Gravel quarry project over an extent of 0.70.93 Ha (Patta Land) at S.F. No:2/1B (P) & 2/4A (P) Patta land of Anjagoundanpatti Village, Aravakuruchi Taluk, Karur District by Thiru. P. Prabhakaran - For Terms of Reference. (SIA/TN/MIN/442105/2023, dt: 28/08/2023)

The proposal was placed in the 416th SEAC Meeting held on 13.10.2023. The details of the minutes are available in the website (parivesh.nic.in). The SEAC noted the following:

1. The project proponent, Thiru. P. Prabhakaran has applied for Terms of Reference for the proposed Ordinary stone and Gravel quarry project over an extent of


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0.70.93 Ha at S.F. No:2/1B (P) & 2/4A (P) Patta land of Anjagoundanpatti Village, Aravakuruchi Taluk, Karur District, Tamil Nadu.

2. The project/activity is covered under Category "B1" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.
3. As per the precise area communication the lease period is for 5 Years. The mining plan is for 3 Years. The Mineable reserve /production for 5 Years shall not to exceed 45096 cum of Ordinary stone and the ultimate depth of 19m BGL.

Based on the presentation and details furnished by the project proponent, SEAC decided to grant Terms of Reference (TOR) with Public Hearing subject to the following TORs, in addition to the standard terms of reference for EIA study for non-coal mining projects and details issued by the MOEF & CC and Annexure, to be included in EIA/EMP Report:

1. The proponent shall furnish registered land deed/lease agreement for all the Survey nos. of the proposed mining lease area.
2. The structures within the radius of (i) 50 m, (ii) 100 m, (iii) 200 m and (iv) 300 m shall be enumerated with details such as Check Dams, dwelling houses with number of occupants, whether it belongs to the owner (or) not, places of worship, industries, factories, sheds, etc.
3. The Proponent shall provide a Controlled Blast design & Vibration Prediction for the structures located within 500 m from the lease boundary and any other sensitive structures.
4. The project proponent shall furnish details of photographs of adequate barbed fencing, greenbelt and garland drain around the boundary of the proposed quarry.
5. The Proponent shall submit a conceptual 'Slope Stability Plan' for the proposed quarry during the appraisal while obtaining the EC.
6. The proponent shall furnish a revised EMP budget for entire life of proposed mining including progressive mine closure plan.
7. The PP shall mark the DGPS reference pillars painted with blue & white colour indicating the safety barrier of 7.5 m to be left under the Rule 13 (1) of MCDR, 1988 within the lease boundary and protective bunds.


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8. The PP shall develop Green belt/plantation all along the mining lease boundary in a safety barrier.
9. The PP shall furnish the total manpower required for the proposed mining project including Statutory officials, Supervisory staff, Skilled, Semi-skilled & Unskilled staff with showing the representation of the local people as per their eligibility and experience.

Agenda No:416- 16

File No. 10407/2023

Proposed Rough stone quarry project over an extent of 1.00.0Ha (Government Poramboke Land) at S.F. No:1372/1 (Part-3) of Kamayagoundanpatti Village, uthamapalayam Taluk, Theni District by M/s. Annai Sathya Magalir Suya Uthavikuzhu - For Terms of Reference. (SIA/TN/MIN/444467/2023, dt: 16/09/2023)

The proposal was placed in the 416th SEAC Meeting held on 13.10.2023. The details of the minutes are available in the website (parivesh.nic.in). The SEAC noted the following:

1. The project proponent, M/s. Annai Sathya Magalir Suya Uthavikuzhu has applied for Terms of Reference for the proposed rough stone quarry project over an extent of 1.00.0Ha at S.F. No:1372/1 (Part-3) of Kamayagoundanpatti Village, uthamapalayam Taluk, Theni District, Tamil Nadu.
2. The project/activity is covered under Category "B1" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.
3. The proposed lease area was previously granted to quarrying of rough stone in favor of "Annai Terasa Kaludaikkum Magalir Nala Munnetra Sangam" by the District Collector, Theni proceedings vide Rc.444/2008/Mines, dated 22.01.2009 in S.F.No. 1372/1, Part - III, Theni District, Uthamapalayam Taluk, Kamayagoundanpatti Village, over an extent of 2.50.0hectares for a period of 3 years. The lease deed was executed from 23.02.2009 to 22.02.2012.
4. Existing Pits – 2 Nos. – 7.5m & 15m.
5. As per the precise area communication the lease period is for 5 Years. The mining plan is for 3 Years. The Mineable reserve /production for 5 Years shall not to 53565m³ of exceed rough stone and the ultimate depth of 70m (65m AGL & 5m BGL).



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29


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Based on the presentation and details furnished by the project proponent, SEAC decided to grant Terms of Reference (TOR) with Public Hearing subject to the following TORs, in addition to the standard terms of reference for EIA study for non-coal mining projects and details issued by the MOEF & CC and Annexure, to be included in EIA/EMP Report:

1. Details of Existing pit dimension, quantity of the mineral quarried and last transport permit for the earlier lease period from Dept. Of Geology & Mining.
2. Copy of 'No Objection Certificate' for the total penalty levied by the concerned AD/DD, Dept of Geology and Mining, and copy of remittance of total penalty by PP.
3. DFO letter regarding proximity of protected areas & reserve forests along with conservation measures.
4. The structures within the radius of (i) 50 m, (ii) 100 m, (iii) 200 m and (iv) 300 m shall be enumerated with details such as dwelling houses with number of occupants, whether it belongs to the owner (or) not, places of worship, industries, factories, sheds, etc.
5. The Proponent shall provide a Controlled Blast design & Vibration Prediction for the structures located within 500 m from the lease boundary and any other sensitive structures.
6. The project proponent shall furnish details of photographs of adequate barbed fencing, greenbelt and garland drain around the boundary of the proposed quarry.
7. The Proponent shall submit a conceptual 'Slope Stability Plan' for the proposed quarry during the appraisal while obtaining the EC, when the depth of the working is extended beyond 30 m below ground level.
8. The proponent shall furnish a revised EMP budget for entire life of proposed mining including progressive mine closure plan.
5. The PP shall mark the DGPS reference pillars painted with blue & white colour indicating the safety barrier of 7.5 m to be left under the Rule 13 (1) of MCDR, 1988 within the lease boundary and protective bunds.


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6. The PP shall develop Green belt/plantation all along the mining lease boundary in a safety barrier.
7. The PP shall furnish the total manpower required for the proposed mining project including Statutory officials, Geologist, Supervisory staff, Skilled, Semi-skilled & Unskilled staff with showing the representation of the local people as per their eligibility and experience.

Agenda No:416- 17

File No. 10414/2023

Proposed Construction of (S+09) Floors 504 Tenements at BRN Garden in S.NO. 2252/5pt, Block No. 20, Purasawakkam Village, Chennai District, Tamil Nadu by Tamil Nadu Urban Habitat Development Board – For Environmental Clearance. (SIA/TN/INFRA2/443659/2023 dated 10.09.2023)


The proposal was placed in this 416th SEAC Meeting held on 13.10.2023. The project proponent gave detailed presentation. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

Based on the document submitted and presentation made by the project proponent along with the consultant, the following facts have emerged

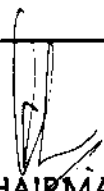
1. The environmental clearance is sought for "Proposed Reconstruction for (S+9 Floor) 504 tenements at BRN Garden in S.No.2252/5pt, Block No.20, Purasawakkam Village, Greater Chennai Corporation by Tamil Nadu Urban Habitat Development Board."
2. M/s. ABC Techno Labs India Private Limited is the EIA Consultant for the project.
3. Total plot area of the project is 9840.62 sq.m and built-up area is 22.910.38 sq. m respectively.
4. Maximum number of floors will be 3 Blocks – S+9 floors and maximum height of the building will be 32.5 m.
5. Total Saleable DU's (dwelling units) is 504 units.
6. Salient features of the project as submitted by the project proponent:


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Project Summary			
Sl. No.	Description	Total Quantity	Unit
General			
1	Plot Area	9,840.62	SQMT
2	Proposed Built Up Area	22,910.38	SQMT
3	Total no of Saleable DU's/Villas	504	No.
4	Max Height - (Height of tallest block)	32.5	M
5	No of Building Blocks (Residential + 3 Blocks (S+9 floor) Community facilities)		No.
6	Max No of Floors	S+9	No.
7	Expected Population	2772	No.
8	Total Cost of Project	77.47	Cr.
9	Project Activity	<p>Tamil Nadu Urban Habitat Development Board (TNUHDB) has Proposed Reconstruction for (S+9 Floor) 504 tenements at BRN Garden in S.No.2252/5pt, Block No.20, Purasawakkam Village, Greater Chennai Corporation by Tamil Nadu Urban Habitat Development Board. The total built up of area and plot area of the proposed project is 22,910.38 Sq.m and 9840.62 Sq.m respectively. Since the proposed activity constitutes construction of buildings in an area greater than 20,000 Sq. m., and less than 1,50,000 Sq.m. it requires Environmental Clearance from State Environment Impact Assessment Authority (SEIAA) under sector 8(a) of EIA Notification 2006.</p>	


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Project Summary			
Sl. No.	Description	Total Quantity	Unit
Areas			
1	Permissible Ground Coverage Area (70%)	6888.434	SQMT
2	Proposed Ground Coverage Area (22.16%)	2181.61	SQMT
3	Permissible FSI Area (2.8)	27,553.73	SQMT
4	Proposed FSI Area (1.90)	18,747.09	SQMT
5	Other Non FSI Areas - including basement area etc.	0	SQMT
6	Proposed Total Built Up Area	22,910.38	SQMT
Water			
1	Total Water Requirement	348	KLD
2	Fresh water requirement	231	KLD
3	Treated Water Requirement	117	KLD
4	Wastewater Generation	314	KLD
5	Proposed Capacity of STP	315	KLD
6	Treated Water Available for Reuse	251	KLD
7	Treated Water Recycled	117	KLD
8	Surplus treated water to be discharged in Municipal Sewer with Prior permission	123	KLD
Rainwater Harvesting			
1	Rainwater Harvesting - Recharge Pits	3	No.
2	Rainwater Harvesting Sump Capacity	75m ³	M ³
Parking			
1	Total Parking Required as / Building Bye Laws	554	ECS
2	Proposed Total Parking	562	ECS

Project Summary			
Sl. No.	Description	Total Quantity	Unit
3	Parking in Basements	-	ECS
Green Area			
1	Proposed Green Area (Minimum 15.0% of plot area)	1477.07 (15.01%)	SQMT
2	Total plot area	9840.62	Sq.m
3	Existing trees on plot	-	
4	Number of trees to be planted	125	
5	Number of trees to be transplanted/cut	-	
Solid Waste Management			
1	Total Solid Waste Generation	1323	KG/DAY
2	Organic waste	529	KG/DAY
3	Mode of Treatment & Disposal	Disposed through CMWSSB	
4	Quantity of Sludge Generated from STP	45.22	KG/DAY
5	Quantity of E-Waste Generation & Disposal	-	
6	Quantity of Hazardous waste Generation & Disposal	-	
Power / Green Power			
1	Total Power Requirement	TANGEDCO tuned to 1700	KW
2	Solar Panels – Roof Coverage	50 % (Roof coverage = 1690 sq.m)	%
3	Hot Water Requirement	At rate of 10 litre	25840
	Of which met by Solar Panels	14100 at rate of 300 litre per solar water heater	
4	DG set backup	62.50 kVA	KVA

Project Summary				
Sl. No.	Description	Total Quantity	Unit	
5	No of DG Sets	3	No.	

Population Details				
S. No	Description	DU's	POP/DU	Total Population
1	Residential	504	5	2520
2	Total Saleable DU's	504	5	2520
3	Total	504	5	2520
4	Non- Residential	-	-	-
5	Club house (Employees eyc.)	-	-	-
6	Club	-	-	-
7	Commercial	-	-	-
8	Facility Management Staff	-	5% of Total population	126
9	Total			
10	Visitors		5% of Total population	126
11	Residential		90% of Total population	
12	Club/ Community Hall		-	-
13	Commercial		-	-
14	Total Visitors		-	-
15	Total Population		100%	2772


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RECOMMENDATION OF THE COMMITTEE

The Committee discussed the matter and recommended a grant of environmental clearance for the project proposal as above and subject to the standard conditions as per the Annexure II of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

Additional Conditions:

1. The Proponent shall explore possibility to provide granite instead of proposed verified tiles for floor.
2. The Proponent shall furnish the detailed report on emission, noise and vibration due to the operations of DG sets as proposed and the same shall be furnished to TNPCB before obtaining CTO and copy submitted to SEIAA-TN.
3. The building shall conform to minimum of IGBC Platinum building norms and shall obtain IGBC Gold certificate in this regard before obtaining CTO from TNPCB.
4. The PP shall adopt IGBC Net Zero Water System.
5. The PP shall obtain fresh water supply commitment letter and disposal of excess treated water from the Competent authority for before obtaining CTO from TNPCB.
6. The project proponent shall provide adequate capacity of STP for sewage generated and treated sewage shall be utilized for flushing and green belt as proposed and committed after meeting the standards prescribed TNPCB time to time.
7. The project proponent shall install STP on 'BOT' basis to build, operate & maintain the STP for a minimum period of 10 years as committed before SEAC.
8. The project proponent shall furnish commitment letter (or) an agreement executed with the competent authority/ authorized representative for utilization of excess treated sewage for avenue plantation as committed for green belt purpose before obtaining CTO from TNPCB.
9. The PP shall analyse the treated wastewater samples periodically through TNPCB.
10. The treated/untreated sewage water shall not be let-out from the unit premises.

11. The proponent shall provide adequate organic waste disposal facility such as organic waste convertor waste within project site as committed and non-Biodegradable waste to authorized recyclers as committed.
12. The height of the stacks of DG sets shall be provided as per the CPCB norms.
13. The project proponent shall submit structural stability certificate from reputed institutions like IIT, Anna University etc. To TNPCB before obtaining CTO.
14. The proponent shall make proper arrangements for the utilization of the treated water from the proposed site for Toilet flushing, Greenbelt development & OSR and no treated water be let out of the premise.
15. The sludge generated from the Sewage Treatment Plant shall be collected and de-watered using filter press and the same shall be utilized as manure for green belt development after composting.
16. The proponent shall provide the separate wall between the STP and OSR area as per the layout furnished and committed.
17. The purpose of Greenbelt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the appendix, in consultation with the DFO, State Agriculture. The plant species with dense/moderate canopy of native origin should be chosen. Species of small/medium/tall trees alternating with shrubs should be planted in a mixed manner.
18. Taller/one year old saplings raised in appropriate size of bags, preferably eco-friendly bags should be planted as per the advice of local forest authorities/botanist/Horticulturist with regard to site specific choices. The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner
19. The Proponent shall provide rain water harvesting sump of adequate capacity for collecting the runoff from rooftops, paved and unpaved roads as committed.
20. The project proponent shall allot necessary area for the collection of E waste

and strictly follow the E-Waste Management Rules 2016, as amended for disposal of the E waste generation within the premise.

21. The project proponent shall obtain the necessary authorization from TNPCB and strictly follow the Hazardous & Other Wastes (Management and Transboundary Movement) Rules, 2016, as amended for the generation of Hazardous waste within the premises.
22. No waste of any type to be disposed off in any other way other than the approved one.
23. All the mitigation measures committed by the proponent for the flood management, to avoid pollution in Air, Noise, Solid waste disposal, Sewage treatment & disposal etc., shall be followed strictly.
24. The project proponent shall furnish commitment for post-COVID health management for construction workers as per ICMR and MHA or the State Government guidelines as committed for during SEAC meeting.
25. The project proponent shall provide a medical facility, possibly with a medical officer in the project site for continuous monitoring the health of construction workers during COVID and Post - COVID period.
26. The project proponent shall measure the criteria air pollutants data (including CO) due to traffic again before getting consent to operate from TNPCB and submit a copy of the same to SEIAA.
27. The PP shall install Solar panel covering 50% of roof top area to harness renewable energy before obtaining CTO from TNPCB. Application of solar energy should be utilized maximum for illumination of common areas, street lighting etc.
28. That the grant of this E.C. is issued from the environmental angle only and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility, to comply with the conditions laid down in all other laws for the time-being in force, rests with the project proponent.

29. As per the MoEF&CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020, the proponent shall include demolishing plan & its mitigation measures in the EMP and adhere the same as committed.
30. As per the MoEF& CC office memorandum F.No.22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 accepted by the Project proponent, the CER cost is Rs. 39 Lakhs and the amount shall be spent for the committed activity for construction of library with study rooms supporting Dhayalu Ammal Charity before obtaining CTO from TNPCB.

Agenda No: 416-18

(File No: 10366/2023)


Proposed Rough stone & Gravel Quarry over an extent of 2.62.50Ha at S.F.Nos. 333/3 of Pachapalayam Village, Sulur Taluk, Coimbatore District, Tamil Nadu by Thiru. G.Thangavel- For Terms of Reference. (SIA/TN/MIN/442308/2023, Dated:30.08.2023).

The proposal was placed in the 416th Meeting of SEAC held on 13.10.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, Thiru. G.Thangavel has applied for Terms of Reference for the Proposed Rough stone & Gravel Quarry over an extent of 2.62.50Ha at S.F.Nos. 333/3 of Pachapalayam Village, Sulur Taluk, Coimbatore District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. As per the mining plan the lease period is 10 years. The mining plan is for the period of five years & production should not exceed 307059 m³ of Rough Stone & 39852 m³ of Gravel with ultimate depth of mining 30m (10m above ground level and 20m below ground level).

Based on the presentation made by the proponent, SEAC decided to recommend for grant of Terms of Reference (TOR) with Public Hearing, subject to the following TORs, in addition to the standard terms of reference for EIA study for non-coal mining projects and details issued by the MOEF & CC to be included in EIA/EMP Report:


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1. The structures within the radius of (i) 50 m, (ii) 100 m, (iii) 200 m and (iv) 300 m shall be enumerated with details such as dwelling houses with number of occupants, whether it belongs to the owner (or) not, places of worship, industries, factories, sheds, etc.
2. The PP shall study on impact of the proposed quarrying operations on the surrounding environment and the PP shall furnish mitigation measures/action plan for the same.
3. The Proponent shall develop greenbelt and garland drain around the boundary of the proposed quarry and the photographs indicating the same shall be shown during the EIA appraisal.
4. The PP shall furnish registered lease consent document obtained from all the pattadhars of proposed mining area.
5. The PP shall mark the DGPS reference pillars painted with blue & white colour indicating the safety barrier of 7.5 m to be left under the Rule 13 (1) of MCDR, 1988 within the lease boundary and protective bunds.
6. The PP shall develop Green belt/plantation all along the mining lease boundary in a safety barrier.
7. The PP shall furnish the total manpower required for the proposed mining project including Statutory officials, Supervisory staff, Skilled, Semi-skilled & Unskilled staff with showing the representation of the local people as per their eligibility and experience.

Agenda No: 416-19

(File No: 10401/2023)

Proposed Black Granite Quarry over an extent of 29.00.23Ha at S.F.Nos. 254(part) of Pathalahalli Village, Karimangalam Taluk, Dharmapuri District, Tamil Nadu by M/s. Tamil Nadu Minerals Limited -For Terms of Reference. (SIA/TN/MIN/442957/2023, Dated:11.09.2023).

The proposal was placed in the 416th Meeting of SEAC held on 13.10.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, M/s. Tamil Nadu Minerals Limited has applied for Terms


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of Reference for the Proposed Black Granite Quarry over an extent of 29.00.23Ha at S.F.Nos. 254(part) of Pathalahalli Village, Karimangalam Taluk, Dharmapuri District, Tamil Nadu.

2. The proposed quarry/activity is covered under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. As per the mining plan the lease period is 20 years. The mining plan is for the period of five years & production should not exceed 1,05,000 m³ of ROM, 10,500 m³ of Granite Recovery (@10%) & 94,500 m³ of Granite Waste (@90%) with ultimate depth of mining 30m.

Based on the presentation and details furnished by the project proponent, SEAC decided to grant Terms of Reference (TOR) with Public Hearing subject to the following TORs, in addition to the standard terms of reference for EIA study for non-coal mining projects and details issued by the MOEF & CC to be included in EIA/EMP Report:

1. The structures within the radius of (i) 50 m, (ii) 100 m, (iii) 200 m and (iv) 300 m shall be enumerated with details such as dwelling houses with number of occupants, whether it belongs to the owner (or) not, places of worship, industries, factories, sheds, etc.
2. The PP shall furnish a Copy of 500 m Cluster Certificate from the Competent Authority.
3. The PP shall furnish VAO certificate regarding the location of habitations within 300m radius from the periphery of the site.
4. The PP shall submit a detailed hydrological report indicating the impact of proposed quarrying operations on the waterbodies like lake, water tanks, etc located within 1 km of the proposed quarry.
5. The Proponent shall develop greenbelt and garland drain around the boundary of the proposed quarry and the photographs indicating the same shall be shown during the EIA appraisal.
6. The PP shall mark the DGPS reference pillars painted with blue & white colour indicating the safety barrier of 7.5 m to be left under the Rule 13 (I) of MCDR, 1988 within the lease boundary and protective bunds.


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SEAC- TN

7. The PP shall develop Green belt/plantation all along the mining lease boundary in a safety barrier.
8. The PP shall furnish the total manpower required for the proposed mining project including Statutory officials, Geologist, Supervisory staff, Skilled, Semi-skilled & Unskilled staff with showing the representation of the local people as per their eligibility and experience.

Agenda No: 416-20

(File No: 10408/2023)

Proposed Rough Stone Quarry over an extent of 2.37.0Ha at S.F.Nos. 1372/1(part-2) of Kamayagoundapatti Village, Uthamapalayam Taluk, Theni District, Tamil Nadu by M/s. K.K.Patti Kaludaykum Magalir Sangam -For Terms of Reference. (SIA/TN/MIN/444594/2023, Dated:16.09.2023).

The proposal was placed in the 416th Meeting of SEAC held on 13.10.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, M/s. K.K.Patti Kaludaykum Magalir Sangam has applied for Terms of Reference for the Proposed Rough Stone Quarry over an extent of 2.37.0Ha at S.F.Nos. 1372/1(part-2) of Kamayagoundapatti Village, Uthamapalayam Taluk, Theni District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. The proposed lease area was earlier granted for quarrying rough stone in favour of Sangalikardu Kaludaikum Magalir Nalasangam by the District Collector, Theni proceedings vide Rc.443/2008/Mines, dated:22.01.2009 in S.F.Nos. 1372/1(part-2) of Kamayagoundapatti Village, Uthamapalayam Taluk, Theni District over an extent of 2.50.0 Ha for a period of 3 years.
4. Existing pit depth -45m.
5. As per the mining plan the lease period is 5 years. The mining plan is for the period of five years & production should not exceed 1,85,120 m³ of Rough Stone with ultimate depth of mining 50m.

Based on the presentation and details furnished by the project proponent, SEAC decided


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to grant Terms of Reference (TOR) with Public Hearing subject to the following TORs, in addition to the standard terms of reference for EIA study for non-coal mining projects and details issued by the MOEF & CC to be included in EIA/EMP Report:

1. The PP shall spell out the conservation cost considering the existence of Srivilliputhur-Megamalai Tiger Reserve (SMTR) after consultation with concerned DFO.
2. The structures within the radius of (i) 50 m, (ii) 100 m, (iii) 200 m and (iv) 300 m shall be enumerated with details such as dwelling houses with number of occupants, whether it belongs to the owner (or) not, places of worship, industries, factories, sheds, etc.
3. The PP shall submit the slope stability action plan during the time of EIA appraisal.
4. The Proponent shall develop greenbelt and garland drain around the boundary of the proposed quarry and the photographs indicating the same shall be shown during the EIA appraisal.
5. The study on impact of the proposed quarrying operations on the surrounding environment which includes water bodies, etc.
6. The Project Proponent shall furnish the revised EMP based on the study carried out on impact of the dust & other environmental impacts due to proposed quarrying operations on the nearby agricultural lands for remaining life of the mine in the format prescribed by the SEAC considering the cluster situation.

Agenda No: 416-21

(File No: 9263/2023)

Proposed Development of Industrial Park with Industrial Housing Facility at Soorapoondi Village S.Nos. 65/1, 181, 182, 183, 184, 185, 186, 187, 188, 189/1, 190, 192, 213pt, 214pt, 215, 216, 217, 218pt, 219pt, 220pt, 221pt, 227/1pt, 227/2pt, 227/3pt, 228/1pt, 228/2pt, 228/3pt, 235pt. Vaniamallee Village S.Nos. 31/1, 31/2, 31/3, 31/4, 31/5, 31/6, 36, 38/1, 41/3, 41/4, 41/12, 41/20, 142/1, 175/2, 175/3, 175/4, 176/1, 176/2, 176/3, 177, 178/1, 179, 180/1, 180/2, 180/3, 180/4, 180/5, 180/6, 181/1, 181/2, 181/3, 181/4, 182, 183, 184, 185, 188/2, 188/3, 188/4, 188/5, 189/1, 189/2, 189/3, 189/4, 197/2, 198/1, 199, 200, 201, 202, 203/1, 204/10, 205/2, 206, 207/1, 207/2, 207/3, 207/4,


MEMBER SECRETARY
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CHAIRMAN
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207/5, 207/6, 207/7, 207/8, 207/9, 208/1, 208/2, 208/3, 208/4, 208/5, 208/6, 209, 210, 211, 212, 213pt, 214pt, 215, 216, 217/1, 218pt, 219pt, 221pt, 222pt, 223pt, 225pt, 226pt, 228/1 Gummidipoondi Taluk, Tiruvallur District, Tamil Nadu By M/s. State Industries Promotion Corporation of Tamil Nadu Limited - Amendment in Terms of Reference. (SIA/TN/MIS/303835/2023 Dt: 01.09.2023).

The proposal was placed in the 416th SEAC Meeting held on 13.10.2023. The project proponent gave a detailed presentation. The details of the project furnished by the proponent are available in the website (parivesh.nic.in). The SEAC noted the following:

1. The project proponent M/s. State Industries Promotion Corporation of Tamil Nadu Limited, has applied for seeking Amendment in Terms of Reference for the Proposed Development of Industrial Park with Industrial Housing Facility at Soorapoondi Village S.Nos. 65/1, 181, 182, 183, 184, 185, 186, 187, 188, 189/1, 190, 192, 213pt, 214pt, 215, 216, 217, 218pt, 219pt, 220pt, 221pt, 227/1pt, 227/2pt, 227/3pt, 228/1pt, 228/2pt, 228/3pt, 235pt. Vaniamallee Village S.Nos. 31/1, 31/2, 31/3, 31/4, 31/5, 31/6, 36, 38/1, 41/3, 41/4, 41/12, 41/20, 142/1, 175/2, 175/3, 175/4, 176/1, 176/2, 176/3, 177, 178/1, 179, 180/1, 180/2, 180/3, 180/4, 180/5, 180/6, 181/1, 181/2, 181/3, 181/4, 182, 183, 184, 185, 188/2, 188/3, 188/4, 188/5, 189/1, 189/2, 189/3, 189/4, 197/2, 198/1, 199, 200, 201, 202, 203/1, 204/10, 205/2, 206, 207/1, 207/2, 207/3, 207/4, 207/5, 207/6, 207/7, 207/8, 207/9, 208/1, 208/2, 208/3, 208/4, 208/5, 208/6, 209, 210, 211, 212, 213pt, 214pt, 215, 216, 217/1, 218pt, 219pt, 221pt, 222pt, 223pt, 225pt, 226pt, 228/1.
2. The project/activity is covered under Category "B1" of Item 8(b) "Townships and Area Development Projects" of the Schedule to the EIA Notification, 2006.
3. Earlier TOR obtained – Letter No. SEIAA-TN/F.No.9263/SEAC/TOR-1213/2022 dated:14.07.2023.
4. Now, the PP has applied for amendment for the following in the existing TOR issued.

Description	Earlier TOR issued	Amendment requested	Remarks
Land Area	203.69 Ha. (503.12 Acres)	215.834 Ha. (533.11 Acres)	Due to addition of 12.144 ha


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			lands
Survey numbers (Village wise)	<p>Soorapoondi Village</p> <p>S.Nos. 65/1, 181, 182, 183, 184, 185, 186, 187, 188, 189/1, 190, 192, 213pt, 214pt, 215, 216, 217, 218pt, 219pt, 220pt, 221pt, 227/1pt, 227/2pt, 227/3pt, 228/1pt, 228/2pt, 228/3pt, 235pt.</p> <p>Vaniamallee Village</p> <p>S.Nos. -142/1, 175/2, 175/3, 175/4, 176/1, 176/2, 176/3, 177, 178/1, 179, 180/1, 180/2, 180/3, 180/4, 180/5, 180/6, 181/1, 181/2, 181/3, 181/4, 182, 183, 184, 185, 188/2, 188/3, 188/4, 188/5, 189/1, 189/2, 189/3, 189/4, 197/2, 198/1, 199, 200, 201, 202, 203pt, 204/10, 205/2, 206, 207/1, 207/2, 207/3, 207/4, 207/5, 207/6, 207/7,</p>	<p>Soorapoondi Village</p> <p>S.Nos. 65/1, 181, 182, 183, 184, 185, 186, 187, 188, 189/1, 190, 192, 213pt, 214pt, 215, 216, 217, 218pt, 219pt, 220pt, 221pt, 227/1pt, 227/2pt, 227/3pt, 228/1pt, 228/2pt, 228/3pt, 235pt.</p> <p>Vaniamallee Village</p> <p>S.Nos. 31/1, 31/2, 31/3, 31/4, 31/5, 31/6, 36, 38/1, 41/3, 41/4, 41/12, 41/20, 142/1, 175/2, 175/3, 175/4, 176/1, 176/2, 176/3, 177, 178/1, 179, 180/1, 180/2, 180/3, 180/4, 180/5, 180/6, 181/1, 181/2, 181/3, 181/4, 182, 183, 184, 185, 188/2, 188/3, 188/4, 188/5, 189/1, 189/2, 189/3, 189/4, 197/2, 198/1, 199, 200, 201,</p>	-

	207/8, 207/9, 208/1, 208/2, 208/3, 208/4, 208/5, 208/6, 209, 210, 211, 212, 213pt, 214pt, 215, 216, 217/1, 218pt, 219pt, 221pt, 222pt, 223pt, 225pt, 226pt, 228/1.	202, 203/1, 204/10, 205/2, 206, 207/1, 207/2, 207/3, 207/4, 207/5, 207/6, 207/7, 207/8, 207/9, 208/1, 208/2, 208/3, 208/4, 208/5, 208/6, 209, 210, 211, 212, 213pt, 214pt, 215, 216, 217/1, 218pt, 219pt, 221pt, 222pt, 223pt, 225pt, 226pt, 228/1.	
Industrial Housing facility	Nil	6.32 acres	Plot AM-3 is earmarked for Industrial Housing
Public Hearing	ToR issued with Public Hearing	Public Hearing to be excluded	Public Hearing is not applicable for 8(b) projects.

Based on the presentation & documents furnished by the PP, SEAC decided to recommend the above amendments in the Terms of Reference. The remaining conditions stipulated vide ToR Letter No. SEIAA-TN/F.No.9263/SEAC/TOR-1213/2022 dated:14.07.2023 will remain unaltered.

Agenda No: 416-22

(File No: 10380/2023)

Proposed additional Construction of Residential Building to the existing building in T.S.No. 1 part, Block No.13 & 14 of Mambalam Village, Kotturpuram Main Road, Kotturpuram, Chennai by M/s. Tamil Nadu Urban Habitat Development Board- For Environmental Clearance (SIA/TN/INFRA2/441065/2023 dated: 23.08.2023).


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The proposal was placed in the 416th Meeting of SEAC held on 13.10.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, M/s. Tamil Nadu Urban Habitat Development Board has applied for Environmental Clearance for the Proposed additional Construction of Residential Building to the existing building in T.S.No. 1 part, Block No.13 & 14 of Mambalam Village, Kotturpuram Main Road, Kotturpuram, Chennai, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 8(a) "Building and Construction Projects" of the Schedule to the EIA Notification, 2006.
3. The project comprises of additional construction of 21 blocks out of which, 9 blocks of Type-I: Stilt floor + 6 floors with 648 Dwelling units, 12 blocks of Type II: Stilt floor + 6 floors with 1152 Dwelling units & (Totally 1800 Dwelling units) to the existing Tenements of 3 blocks of Stilt + 4 floors 128 Dwelling units (Total no. of 1928 Dwelling units).
4. The Proposed site falls under CRZ II category.

Based on the documents furnished and the presentation made by the proponent, the SEAC, after detailed deliberations, decided to obtain the following details,

1. The PP shall obtain CRZ Recommendation from the Competent Authority since the project site is very close to the Adyar River, about 70m away.
2. The PP shall obtain fresh water supply commitment letter and disposal of excess treated water from the local body /Metro Water/TWAD.
3. The proponent shall furnish NOC for flood inundation point of view obtained from the Competent Authority/PWD since the site is very close to Adyar River.
4. The PP shall furnish structural stability certificate.

On receipt of the above, further deliberations will be carried out. Hence, the Proponent is advised to submit the additional documents/information as sought above within the period of 30 days failing which your proposal will automatically get delisted from the PARIVRESH portal.


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Agenda No: 416 - 23

(File No: 7627/2023)

Existing Construction of Mixed-Use Development (Residential & Commercial) at T.S.No.2, Block No.4 of Arumbakkam Village, Aminjikkarai Taluk (Earlier Egmore – Nungambakkam Taluk), Chennai District, Tamil Nadu by M/s. Tamil Nadu Housing Board – Environmental Clearance issued - Compliance of Hon'ble National Green Tribunal (SZ) order – Appeal No. 10 of 2021 (SZ).

The proposal was placed in this 415th SEAC meeting held on 12.10.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, M/s. Tamil Nadu Housing Board had been accorded Environmental Clearance for the Construction of Mixed-Use Development (Residential & Commercial) at T.S.No.2, Block No.4 of Arumbakkam Village, Aminjikkarai Taluk (Earlier Egmore – Nungambakkam Taluk), Chennai District, Tamil Nadu.
2. The proposed activity was covered under Category “B2” of Item 8(a) “Building and Construction Projects” of the Schedule to the EIA Notification, 2006.
3. Earlier Environmental Clearance was accorded vide Lr. No. SEIAA-TN/F-7627/EC/8(a)/739/2020 dated: 23.01.2021.
4. TNHB Letter No. AND/Sur/092/1975 Dated: 03.10.2022 requested to impose further conditions, if any based on the Hon'ble National Green Tribunal order.
5. TNHB Letter No. AND/PLG/869/2018 Dated: 29.05.2023 regarding the same as above.
6. Earlier the proposal was placed in 398th SEAC meeting held on 04.08.2023. During the meeting the Committee noted that neither the project proponent nor the consultant attended the meeting. Hence the subject was not taken up for appraisal and committee decided that the project proponent should furnish the reason for his absence.
7. Subsequently, the proposal was again placed in the 415th SEAC meeting held on 12.10.2023. The proponent vide email dated 11.10.2023 requested to postpone the meeting. Hence, committee decided to take it up in the ensuing meeting.


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SEAC- TN

Now the proposal was again placed in 416th SEAC meeting held on 12.10.2023. Based on the presentation and documents furnished by the proponent, Committee noted the following

1. An appeal was filed before Hon'ble NGT (SZ) and it was disposed with the following direction which inter alia states in the para 37 of order dated: 28.09.2022 in the Appeal No. 10 of 2021 (SZ) with O.A. No. 91 of 2021 (SZ)
 - i. The 4th respondent, SEIAA is directed to consider the undertaking given by the 3rd respondent (TNHB), project proponent in its affidavit dated 30.06.2022 regarding the construction of retaining wall with the given measurements and also one more retaining wall with an average gap of 6.00 meters as an extended basement and other modifications undertaken by 4th respondent (SEIAA). Accordingly, 4th respondent (SEIAA) would impose further conditions, if any, to the Environmental Clearance already granted based on the affidavit and also approve the rough plan filed by them.
 - ii. Since, Water Resources Department had issued NOC considering the inundation point of view only for the purpose of obtaining planning permission from CMDA, PWD-WRD is directed to satisfy itself of structural soundness of retaining walls as proposed by TNHB in their affidavit.
 - iii. Though, CMDA is not a party to the proceedings, in view of the buffer zone indicated and the measurements from the retaining wall proposed, may once again consider the building permit as to whether it is within the norms for granting the required FSI (Floor Space Index) and accordingly pass appropriate orders.
 - iv. As there is variation in the extent of river and landline due to voluntary surrender of a portion of their land by TNHB, the Revenue Department is directed to make note of the fact and appropriately incorporate the necessary modification in the revenue records.
 - v. SEIAA is also directed to take on record the modified river boundary and buffer zone in the light of undertaking affidavit given by TNHB.

Hence, the Committee in deference to the direction issued by the Hon'ble NGT (SZ) in the Appeal No. 10 of 2021 (SZ) in the O.A. No. 91 of 2021(SZ) dated: 28.09.2022, decided to constitute a sub-committee in order to assess the site conditions and the environmental settings of the proposed site.

After the receipt of the report by the Sub-committee, the SEAC will deliberate on imposing additional conditions to the earlier issued Environmental Clearance dated: 23.01.2021.

Agenda No: 416 - TA - 01


(File No: 6121/2023)

Existing Limestone mine over an Extent 2.51.5ha in SF. No: 809/2, 3, 4 & 5 (P), Thennilai Village, Kadavur Taluk, Karur District, Tamil Nadu by M/S.Ragavendra Minerals and Chemicals, Thiru.E.Dhanapal (Managing Partner) – For Environmental Clearance under violation category(SIA/TN/MIN/417551 /2023, Dated. 09.02.2023)

This proposal was placed in this 416th SEAC Meeting held on 13.10.2023. The details of the project furnished by the proponent are available on the PARIVESH web portal (parivesh.nic.in). The Project Proponent gave a detailed presentation.

The SEAC noted the following:

1. The Proponent, M/s. Ragavendra Minerals and Chemicals, Thiru. E. Dhanapal (Managing Partner), has applied for Environmental Clearance under Violation Category for the Existing Limestone mine over an Extent 2.51.5ha in SF. No: 809/2, 3, 4 & 5 (P), Thennilai Village, Kadavur Taluk, Karur District, Tamil Nadu.
2. The project/activity is covered under Category "B1" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.
3. ToR issued vide Lr. No. SEIAA-TN/F.No.6121/TOR- 323/2018 Dated: 10.05.2018 under Violation Category.
4. Amendment to ToRLr.No. SEIAA-TN/F.No.6121/SEAC-CXVIII/TOR- 323(A)/2018 Dated: 30.07.2018
5. EXTENSION to ToR Lr. No.SEIAA-TN/F.No. 6121 /TOR- 323/Ext/ dated:26.09.2022
6. Public Hearing -As per MoEF & CC Office Memorandum – F.No.22-


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SEAC -TN


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SEAC- TN

28/2020.IA.III Dated: 12.11.2020; Point No.5.

7. Earlier the proposal was placed in 369th SEAC meeting held on 20.04.2023. Based on the presentation made and documents furnished by the project proponent, the SEAC decided to constitute a SUB COMMITTEE to make an on-site inspection to assess the present status of the project site and environmental settings as the proposal falls under violation category and submit the report along with the recommendations to the Committee.


Further the Committee called for the following additional details:

1. A letter from the Project Proponent justifying that the project activity is covered under Category "B2" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006, as amended.
2. Valid mine plan approved by the competent authority for the proposed period of quarrying.
3. The PP shall furnish the copy of receipt of the penalty levied by the Dept of Geology and Mining for the exploitation of mineral without prior EC.

Meanwhile, the SEAC decided to constitute a sub-committee to make on-site inspection to assess the present status of the proposed project, environmental settings and to assess ecological damage assessment whether it is being carried out in accordance with CPCB Guidelines, remediation plan, natural resource augmentation and community resource augmentation. SEAC also decided to request SEIAA-TN to initiate action under Sec. 19 of the Environment (Protection) Act, to be taken for violation cases, in accordance with law.

Based on the above, The State Expert Appraisal Committee (SEAC) Tamil Nadu constituted a sub-committee vide its Lr.No.SEAC-TN/Karur/Site Inspection/2023 dated: 20.04.2023. Based on Minutes of the 369th SEAC Meeting, held on 20.04.2023, to inspect and study the field condition for the proposal seeking EC for the Existing Limestone mine over an Extent 2.51.5ha in SF. No: 809/2, 3, 4 & 5 (P), Thennilai Village, Kadavur Taluk, Karur District, Tamil Nadu. The Committee comprised of Shri. D. Narasimhan, Member, SEAC.

The Sub Committee report was placed in 416th SEAC meeting held on 18.10.2023. The observations made in the field and recommendation derived on the basis of the field


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visit are as below:

Chronology

Sl. No	Sequence of events	Date
1	Date of TOR Application with Online Proposal No. SIA/TN/MIN/61601/2017 (within Window Period) – Considered under Violation Category	09.04.2017
2	As per Gazette Notification S.O. 3977 (E) Dated 14.08.2018 Category B Project redirected to SEIAA - Date of TOR Application with Online Proposal No. SIA/TN/MIN/23051/2018	03.04.2018
3	TOR Meeting – 106 th held on	05.04.2018
4	Awarded TOR: SEIAA-TN/F.No.6121/TOR-323/2018	10.05.2018
5	Applied for ToR Extension SIA/TN/MIN/268233/2022	16.04.2022
6	Extension ToR Granted: SEIAA-TN/F.No.6121/TOR-323/Extn/ Dated: 26.09.2022	26.09.2022
7	EC Application vide Online Proposal No. SIA/TN/MIN/417551/2023	19.04.2023
8	Deliberation in 369 th Meeting held on	20.04.2023
9	Recommended for Site Visit by Sub Committee	20.04.2023

Salient Features of the Project

Particulars	Details
Name of Project	Thennilai Limestone Mines
Project Proponent	M/s. Ragavendra Minerals and Chemicals
Location of mine	SF No. 809/2, 3, 4 & 5 (P), Thennilai Village, Kadavur Taluk, Karur District
Category of Project	B1
Proposed Capacity per Annum	1,29,262- TPA ROM (Peak production)
Mine Lease Area	2.51.5 Ha


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SEAC -TN


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SEAC- TN

Particulars	Details
Life of Mine	5.0 years
Total Working Day/Year	264 days
Total Number of workers employed	26
Total Water Requirement & Source	1.0 KLD Source collected rain water & from water vendors
Latitude & Longitude	10°45'45.74"N to 10°45'50.55"N 78°16'45.07"E to 78°16'52.49"E
Topo Sheet number	58 J/05
Eco Sensitivity	Kadavur Slender Loris Sanctuary, Notified Eco Sensitive Area (ESA) vide S.O. 4500(E) dated 13.12.2019, is located at a distance of 16.0 km in South West direction from the Lease. The shortest Eco Sensitive Zone (ESZ) of Kadavur Slender Loris Sanctuary is 15.0 km in South West direction. There are no other Eco Sensitive Areas like National Parks, Wildlife Sanctuaries, Biosphere Reserves, Wildlife Corridors, Ramsar Sites, Tiger/Elephant Reserves, Reserved Forests, etc. (existing as well as proposed) within 10 km from the Lease.
Type of Land	Patta Land
Method of Mining	Non – Conventional Opencast Method of Mining using Jackhammer drilling, Excavator for mining operation
Bench parameters	Height 4 meters & Width 6 m
Depth of Mining	33 m BGL
Dimension of the Pit -Ultimate	Pit – I = 200m (L) X 92m (W) X 33m (D)
Nearest railway station	Palayam – 17 km – South West

Particulars	Details
Nearest Highway	NH 44 – Salem – Madurai - 30 km – Northwest
Nearest air port	Trichy Airport at 46.0 km in East
Seismic zone	Zone-II
Cost of the Project	Rs.21.31 Lakhs

Mining Lease Details

Sl. No.	ML Grant	ML Grant Reference	Validity		Remarks
			From	To	
1	Initial Grant	G.O. 3(D) 63, Industries (MMA.2) Department Dated 19.05.1998	12.11.1998	11.11.2018	20 Years
2	MMDR (Amend) Act, 2015	-	12.11.2018	11.11.2048	30 Years

Mining Plan Details

Sl. No.	Mining Plan/Scheme	Plan Period	Approval vide IBM Letter Reference
1	Mining plan	1998-99 to 2002-03	TN/TCR/MP/LST-564-MDS, dated: 28.02.1998
2	First Scheme of Mining	2006-07 to 2010-11	TN/KRR/LST/MS-439/MDS Dated 20.04.2007
3	Second Scheme of Mining	2011-12 to 2015-16	TN/KRR/LST/MS-885/MDS Dated 12.08.2013
4	Third Scheme of Mining	2016-17 to 2018-19	TN/KRR/LST/MS-1345/MDS Dated 01.04.2016
5	Review of mining plan	2018-19 to 2022-23	TN/KRR/LST/ROMP-1497.MDS Dated 23.05.2018

6	Review of mining plan	2023-24 to 2027-28	Review of mining plan and PMCP is prepared and submitted to IBM
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Details of Mining

Sl. No.	Particulars	Details
1	Method of mining	Non- Conventional Opencast Method of Mining (using jack hammer drilling, Controlled blasting and using Excavator)
2	Geological reserve	6,84,528 Tonnes of ROM 4,10,717 Tonnes of Limestone @ 60% Recovery
3	Mineable reserve available- As on 16.09.2020	3,06,602 Tonnes of ROM 1,83,961 Tonnes of Limestone @ 60% Recovery
4	Proposed production (Peak production)	3,06,602 Tonnes of ROM 1,83,961 Tonnes of Limestone @ 60% Recovery
5	Elevation range of the mine site	Top RL 174 m
6	Bench height	4.0m
7	Bench width	6 m
8	Bench slope	45° to 60° to vertical
9	Proposed Depth of mining	33m BGL
10	Life of mine	5.0 years

Past Production Details

Year	Proposal (Tonnes)			Actual (Tonnes)		
	ROM (Ts)	Limestone @ 60% (Ts)	Mineral Reject @ 40% (Ts)	ROM (Ts)	Limestone @ 60% (Ts)	Mineral Reject @ 40% (Ts)
2016-17	76804	46082	30722	92300	55380	36920
2017-18	75535	45321	30214	-	-	-
2018-19	79061	47436	31624	-	-	-
TOTAL	231400	138840	92560	92300	55380	36920

Proposed Production Details

As per the Review of Mining Plan approved by Indian Bureau of Mines vide Letter No. Lr.No. TN/KRR/LST/ROMP-1497.MDS Dated 23.05.2018, the proposed production is as follows.

Summary of yearwise [2018-19 (from 12.11.2018) to 2022-23]

Year	ROM(Ts)	Limestone @ 60% Recovery (Ts)	Mineral Rejects @ 40% (Ts)	Side burden (Ts)	Topsoil (Ts)	Total Waste (Mineral Rejects @ 40% + Side burden) (Ts)	Ore waste ratio
2018-19 (from 12.11.2018 to 31.03.2019)	50929	30557	20372	18762	6758	39133	1:1.28
2019-20	129262	77557	51705	39146	5138	90850	1:1.17
2020-21	42338	25403	16935	14383	8064	31319	1:1.23
2021-22	39302	23581	15721	5980	-	21701	1:0.92
2022-23	44772	26863	17909	1206	-	19115	1:0.71
Total	306602	183961	122641	79477	19960	202118	1:1.10

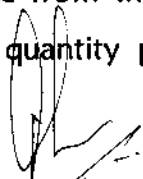
Violation Category

M/s. Ragavendra Minerals and Chemicals has operated Thennilai Limestone Mine under G.O. 3(D) 63, Industries (MMA.2) Department after 15.01.2016 till 28.03.2016 and produced/transported 12,150 Tonnes of Limestone. Operating the Lease after 15.01.2016 without EC is in Violation of EIA Notification 2006 (as amended). The Violation Period was 73 Days. The mining activities were stopped from 28.03.2016 and there was no production from this Mine since then.

Ecological Damage Assessment

Other than operating the Mine without required EC after 15.01.2016, and one more violation observed was that the mine was operated without CTO there. M/s. Ragavendra Minerals and Chemicals received the Demand Notice from the District Collector, Karur for 100% cost of Mineral value of Limestone quantity produced


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i.e,12,150 Tonnes without EC vide Rc. No. 438/Mines/2019, Dated 02.08.2019 for Rs.52,89,300/-. M/s. Ragavendra Minerals and Chemicals Not remitted the amount to Department of Geology and Mining.

OBSERVATIONS OF THE SEAC SUB-COMMITTEE DURING THE PROJECT SITE INSPECTION

1. The company was granted Limestone Mining Lease as per Proceeding Order G.O. 3(D) No. 63, Industries (MMA2) Department Dated: 19.05.1998 in Patta Land over an extent of 2.51.5ha at Thennilai Village, Kadavur Taluk, Karur District.
2. The mining lease for limestone was granted for a period of 20 years. The lease was executed on 12.11.1998 and it will get expired on 11.11.2018. As per MMDR Amendment Act 2015, lease period is further extended up to 11.11.2048.
3. There were no mining activities carried out in the Pit.
4. Fencing is very poor and damaged.
5. There are no habitations within 500-meter radius area from the mining lease boundary and no structures exists within 1 km.
6. The PP have got Approved Mining Plan from IBM for the Project from time to time without any break with sending the draft copy of the Mining Plan well in advance to the competent authority.
7. Rain water accumulated in part of pit bottom noticed.
8. The waste rocks generated during mining was dumped outside mining lease area.
9. No Ground Water-table intersection or seepage was noticed in the existing benches.
10. No Green Belt was developed along the periphery of Mine Pits including in Safety Barriers, waste dumps, Mineral transport road.
11. Garland Drains are not provided along the periphery but its maintenance has to be enhanced after the commencement of mining operations.
12. Additional plantation as per the proposals given in EIA shall be developed.

STATUS OF MINING OPERATION

The mining activities were stopped from 28.03.2016 and there was no production from this Mine since then.


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MINING PLAN APPROVALS


The Regional Controller of Mines, Indian Bureau of Mines (IBM), Chennai has accorded its Approval periodically for Mining Plans/Schemes. For recent Review of Mining Plan (ROMP) for the Period 2018-19 to 2022-23 vide Letter No. TN/KRR/LST/ROMP-1497.MDS Dated 23.05.2018.

PENALTY FOR VIOLATION

M/s. Ragavendra Minerals and Chemicals has received Demand Notice from the District Collector, Karur for 100% cost of Mineral value of Limestone quantity of 12,150 Tonnes produced without EC vide Rc. No. 438/Mines/2019, Dated 02.08.2019 for Rs.52,89,300/-. M/s. Ragavendra Minerals and Chemicals not remitted the amount to Department of Geology and Mining.

APPLICATION OF CPCB ASSESSMENT FOR ENVIRONMENTAL COMPENSATION:

CPCB has suggested in a report methodology for assessment of environmental compensation which may be levied or imposed upon industrial establishments who are guilty of violation of environmental laws and have caused damage/degradation/loss to environment. It does not encompass individuals, statutory institutions and Government etc. Report is titled as "Report of the CPCB In-house Committee on Methodology for Assessing Environmental compensation and Action Plan to Utilize the Fund" which was finalized in the meeting held on 27.03.2019. It shortlisted the incidents requiring an occasion for determining environmental compensation. Six such incidents, shortlisted, are: "Cases considered for levying Environmental Compensation (EC): a) Discharges in violation of consent conditions, mainly prescribed standards/consent limits. b) Not complying with the directions issued, such as direction for closure due to non-installation of OCEMS, non-adherence to the action plans submitted etc. c) Intentional avoidance of data submission or data manipulation by tampering the Online Continuous Emission / Effluent Monitoring systems. d) Accidental discharges lasting for short durations resulting into damage to the environment. e) Intentional discharges to the environment -- land, water and air resulting into acute injury or damage to the environment. f) Injection of treated/partially treated/ untreated effluents to ground water."


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SEAC- TN

For the instances at item (a), (b) and (c), report says that 'Pollution Index' (hereinafter referred to as 'PI') would be used as a basis to levy environmental compensation. CPCB had already published Guidelines categorizing industries into Red, Orange, Green and White, based on the concept of PI. The PI is arrived after considering quantity and quality of emissions/effluents generated, types of hazardous waste generated and consumption of resources. PI of an industrial sector is a numerical number in the range of 0 to 100 and is represented as follows:

PI=f (Water Pollution Score, Air Pollution Score and HW Generation Score).

During the Violation Period, impacts on the Environmental Components viz. Air, Water, Land, Biological and Socio-economics Environment are assessed based on the Norms specified by the Central Pollution Control Board (CPCB) to implement "Polluter Pays" Principle and to levy Environmental Compensation for Restoration of Environmental Damages. The Environmental Compensation shall be based on the following formula:

$$EC = PI \times N \times R \times S \times LF$$

where,

EC is Environmental Compensation in Rupees

PI = Pollution Index of Industrial Sector

N = Number of days of violation took place


R = A factor in Rupees for EC

S = Factor for Scale of Operation

LF = Location Factor.

While pronouncing the Judgement on 27th May 2021, the NGT Southern Zone, Chennai via Original Application No. 244 of 2017 (SZ) in the matter of Shefy Joseph Vs MoEF & CC states that

"....38. If the mining operation was done after 15.01.2016 without obtaining Environmental Clearance (EC), then the period of operation from 15.01.2016 till they stopped the operation will be treated as an unauthorized operation of the quarry, for which, they will be liable for payment of environmental compensation....."


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CHAIRMAN
SEAC- TN

With applicable values of PI-80 (Red Category Industry), N-35 days (of violation period), R-Rs.250 (based on nature of violation; Max. Rs.250-), S-0.5 (cumulatively Small Scale Unit), LF-1.0 (Thennilai Population is less than one million), the Environmental Compensation computed is as follows:


$$EC \text{ for G.O. 3(D) 63 : } 80 \times 73 \times 250 \times 0.5 \times 1.0 = \text{Rs.7,30,000/- (Maximum)}$$

However, as per CPCB Guidelines, the minimum Environmental Compensation shall be Rs.5,000/- per day. Accordingly, the minimum Environmental Compensation for 73 days of Violation will be Rs.3,65,000/- (Minimum).

REMEDIATION PLAN WITH ACTION PLAN SPECIFIC TO THE REGION ALONG WITH BUDGET

Env. Component	Remediation Measures for Environmental damage	1st Year (in Rs)	2nd Year (in Rs)	3rd Year (in Rs)	Total (Rs.)
Air Environment	water sprinkler in the haul road and mines	10,000	10,000		20,000
Water Environment	Renovation of Rain Water Harvesting Pits	10,000	10,000		20,000
Land Environment	Renovation of Garland Drains	20,000			20,000
Ecological Environment	Avenue Plantation	20,000	20,000		40,000
Socio economic environment	Solar Lighting Facilities along the village roads	50,000	50,000		1,00,000
Total					2,00,000

NATURAL RESOURCE AUGMENTATION PLAN SPECIFIC TO THE REGION ALONG WITH ACTION PLAN


MEMBER SECRETARY
SEAC -TN



CHAIRMAN
SEAC- TN

Environmental components	Natural Resource Augmentation	1st Year	2nd Year	3rd Year	Total (Rs.)
Water Environment	Rain water harvesting structures at prominent place in the Thennilai village	50,000 Implementation	25,000 Maintenance	25,000 Maintenance	1,00,000
Air Environment	Providing trees in three tier system around project area as air barrier	50,000 Implementation	25,000 Maintenance	25,000 Maintenance	1,00,000
Land / Soil Environment	Providing Agricultural needs for 2 families	30,000			30,000
TOTAL					2,30,000

**THE COMMUNITY RESOURCES DEVELOPMENT PLAN SPECIFIC TO THE REGION
ALONG WITH ACTION PLAN**

Sl.No	Community Resource Development	Beneficiaries	1st Year	2nd Year	3rd Year	Total (Rs.)
1	Tree Plantation		1,00,000	-	-	1,00,000


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	Toilet Renovation & Maintenance	Thennilai Village Government School	1,00,000			1,00,000
	Provision of smart board, desk, chair, fan etc		1,00,000			1,00,000
	TOTAL					3,00,000

CONCLUSIONS & RECOMMENDATIONS BY THE SUB-COMMITTEE:

As the Proposal falls in Low Level Ecological Damage and EMP measures were in place (collectively for Thennilai Limestone Mine) during the Violation Period, the Sub-Committee is of the opinion that the minimum Environmental Compensation of for 73 days of Violation under CPCB Guidelines will be Rs.7,30,000/- which has to be compensated as follows:

Sl. No.	Activity Proposed	Total, Rs.
1	Cost of Ecological Damage Remediation Plan	2,00,000/-
2	Natural Resource Augmentation Plan	2,30,000/-
3	Community Resource Augmentation Plan	3,00,000/-
Grand Total		7,30,000/-

SEAC RECOMMENDATIONS

Even though the PP had submitted the Environmental Compension indicating the contribution towards to Ecological Damage Remediation Plan, Natural Resouse Augmentation and Community Resource Augmentation Plan for obtaining the EC under violation category, the SEAC has observed that the PP had not carried out the Public Hearing for the above proposal involving mining of major mineral, i.e., Limestone as all the major minerals are considered to be B1 Category vide MoEF OM 2013 {No. J-13012/12/2013-1A-11 (I)} - Categorization of Category 'B' projects/activities into Category 'B1' & 'B2', 24th December, 2013 which spells out

"The guidelines for categorization of Category 'B' projects/activities into Category 'B1' & 'B2' are applicable only to those projects/activities mentioned above. All the other Category 'B' projects/activities listed under the Schedule of


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EIA Notification, 2006 and its amendments shall be considered as Category 'B1' projects and appraised as per the procedure prescribed in the EIA Notification"

Further, it is pertinent to observe that the EIA Notification dated 14.09.2006 has been amended vide Notifications dated 15.01.2016, 20.01.2016, 01.07.2016 and later, the EIA Notification 2018, dated.14.08.2018 which comments on the 'Mining of Minerals' with the 'Category with Threshold limit' of "<50 ha \geq 5 ha of mining lease area" specified as 'B' Category in the EIA Notification, 2006 is replaced with "<100 ha of mining lease area in respect of non-coal mine lease". Here, the mining of mineral was classified into B1 & B2 categories stipulating the conditions as given below:

- (i) *for project or activity of mining of minor minerals of Category 'B2' (up to 25 ha of mining lease area);*
- (ii) *for project or activity of mining of minor minerals of Category 'B1' in case of cluster of mining lease area; and*


The NGT Order (O.A. No. 186/2016) titled as Satendra Pandey vs. MoEF&CC & Anr., vide order dated 13.09.2018 and relevant part of the order reads as under:-

"21. Dispensing with the requirement of Public Hearing which forms a part of the Public Consultation under Stage-III of the Environmental Clearance process under EIA Notification, 2006 for areas measuring 0 to 25 ha for individual mine areas and in cluster situation where public hearing has been provided, has resulted in gross dilution of EIA Notification dated 14th September, 2006...."

Accordingly, the MoEF & CC, vide its OM F.No. L-11011/175/2018-IA0II (M) dated. 12.12.2018, has inter-alia directed as follows:

"....(i) Providing for EIA, EMP and therefore, Public Consultation for all areas from 5 to 25 ha falling member Category B-2 at par with Category B-1 by SEAC/SEIAA as well as for cluster situation wherever it is not provided:...."


Now, it has been made clear that the Public Hearing is required to be conducted for the *areas measuring 5 to 25 ha for individual mine areas and also in cluster situation even in case of minor minerals.*



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SEAC -TN


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SEAC- TN

Hence, it has been established that the procedures stipulated for the appraisal of the projects involving the Mining of Minerals for obtaining the prior Environmental Clearance (or) Environmental Clearance under EIA Notification 2006 in consonance with EP Act 1986, are as follows:

Type of Mineral	B1		B2	
	Applicability	Obligatory	Applicability	Obligatory
Minor Minerals	<i>for project or activity of mining of minor minerals (Individual Mine Lease) possessing the mining lease area of extent of 5 ha or more.</i>	<i>Form -I, PFR, DSR and Approved Mine Plan and EIA and EMP; Public Hearing.</i>	<i>for project or activity of mining of minor minerals possessing the mining lease area of extent less than 5 ha.</i>	<i>Comprehensive Form -1M, PFR, DSR and Approved Mine Plan and EMP.</i>
Minor Minerals	<i>for project or activity of mining of minor minerals in case of cluster of mining lease areas possessing the cumulative mining lease area of extent of 5 ha or more, as defined in EIA Notifications, S.O.141 (E), 15.01.2016 & S.O. 2269(E), 01.07.2016.</i>	<i>Form -I, PFR, DSR and Approved Mine Plan and EIA and EMP; Public Hearing.</i>	<i>for project or activity of mining of minor minerals in case of cluster of mining lease areas possessing the cumulative mining lease area of extent of less than or upto 5 ha. as defined in EIA Notifications, S.O.141 (E), 15.01.2016 &</i>	<i>Comprehensive Form -1M, PFR, DSR and Approved Mine Plan and One EMP for all leases in the Cluster.</i>


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			S.O. 2269(E), 01.07.2016.	
Major Minerals	<p>for project or activity of mining of minor minerals (Individual Mine Lease) (OR) in case of cluster of mining lease areas possessing the cumulative mining lease area of extent possessing the mining lease area of extent of \leq 250 ha of mining lease area in respect of non-coal mine lease; Hence, vide amended Notifications S.O. 1886(E) dated 20.04.2022, it shall be dealt by the SEIAA/SEAC under the 'Category B'; However, the EAC (MoEF &</p>	<p>Form -I, PFR, DSR and Approved Mine Plan and EIA and EMP; Public Hearing.</p>	<p>It is well-known that there is no need of prior environmental clearance for the mining projects of major minerals of lease area less than 5 ha as per EIA Notification, 2006 either from the State Government or the Central Government till 15.01.2016.</p> <p>However, the EIA Notification S.O. 141, dated. 15.01.2016 with subsequent amendments has defined the scope for project or activity of mining of minor minerals only to be considered as Category 'B2' with area of extent less than 5 Ha. Further, the Mining of Major Minerals are treated under the Category of 'B1' as there is no Notification/OM/Circular issued by the Competent Authority describing the Category of Major</p>	

	<p>CC) will process the proposals of</p> <p>(i) >250 ha mining lease area in respect of major mineral mining lease other than coal;</p> <p>(ii) >500 ha of mining lease area in respect of coal mine lease.</p> <p>(iii) Asbestos mining irrespective of mining area, under the 'Category A'.</p>		<p>Mineral possessing mining lease area of less than 5 Ha as 'B2'.</p>
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Recently, the MoEF & CC vide its Notification S.O. 2163 (E) , dated. 09.05.2022 clearly states that

"....Whereas, the Central Government in the erstwhile Ministry of Environment and Forests, in exercise of its powers under sub-section (1) and clause (v) of sub-section (2) of section (3) of the Environment (Protection) Act, 1986 has published the Environment Impact Assessment Notification, 2006 (hereinafter referred to as the EIA Notification, 2006) vide number S.O.1533 (E), dated the 14th September, 2006, for mandating prior Environmental Clearance (EC) for certain category of projects; And whereas, for the grant of prior EC, public hearing is mandatory and it is an integral part of the EC process, unless specifically exempted for certain activities as mentioned in the EIA Notification 2006, as amended from time to time....."


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Therefore, after the long deliberations and discussions in the 416th SEAC Meeting, the SEAC has observed that the Public Hearing is mandatory for all mining projects of major mineral category irrespective of the area for ensuring the scientific & systematic mining and the conservation of major minerals, as per the provisions of the EIA Notification, 2006 as amended from time to time. Further, it is also noted that Public Hearing is a pre-requisite for the following mining projects: (i) If the proposal is a new one. (ii) If a major mineral project is being submitted for environmental clearance to MOEF for the first time for proposed production and or lease area.

Based on the impact of the above EIA Notifications and legal implications observed by the Hon'ble NGT Judgements, the SEAC has decided to direct the PP to conduct the Public Hearing (PH) as per the procedure prescribed in EIA Notification, 2006 and submit the minutes of the PH with action plan, for considering the application/proposal towards the grant of EC.

After the receipt of the minutes of the Public Hearing submitted by the PP along with a valid Mining Lease, and approved Mining Plan/Scheme of Mining including the PMCP/FMCP for the proposed mining operations, the SEAC may deliberate the future course of action.

Ageanda No. 416 – TA - 02

(File No.6122/2023)

Existing Limestone Quarry over an Extent of 3.15.0 Ha located at S.F.No. 806/5 &6, 807/3 of Thennilai Village, Kadavur Taluk, Karur District, Tamil Nadu by Thiru. E. Dhanapal – For Environmental Clearance under violation category.

(SIA/TN/MIN/417124/2023, dated: 06.02.2023)

The proposal was placed in the 416th SEAC Meeting held on 13.10.2023. The project proponent gave detailed presentation. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Proponent, Thiru. E. Dhanapal, has applied for Environmental Clearance for the existing Limestone Quarry over an Extent of 3.15.0 Ha located at S.F.No.


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806/5 & 6, 807/3 of Thennilai Village, Kadavur Taluk, Karur District, Tamil Nadu.

2. The project/ activity is covered under Category "B" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.
3. TOR was issued vide Lr.No.SEIAA-TN/F.No.6122/SEAC/ToR-319/2018 Dated: 10.05.2018.
4. Amendment to ToR vide T.O. No. SEIAA-TN/F-6122/SEAC-CXVIII/TOR-319(A)/2018 Dated: 30.07.2018.
5. Extension to TOR vide Lr.No.SEIAA-TN/F.No.6122/SEAC/TOR-319/2018/Extn. dated: 26.09.2022.
6. EIA Report was submitted on: 08.02.2023.
7. Earlier, the proposal was placed in 369th SEAC meeting held on 20.04.2023. Based on the presentation made by the proponent, SEAC decided to call for additional details.

1. To revise the ecological damage assessment as per CPCB Guidelines.
2. To Develop Green belt.

Meanwhile, the SEAC decided to constitute a sub-committee to make on-site inspection to assess the present status of the proposed project, environmental settings and to assess ecological damage assessment whether it is being carried out in accordance with CPCB Guidelines, remediation plan, natural resource augmentation and community resource augmentation.

After the receipt of the additional details from the proponent and the evaluation report by the Sub-committee, the SEAC will deliberate on the issue of Environmental Clearance under violation category. SEAC also decided to request SEIAA-TN to initiate action under Sec. 19 of the Environment (Protection) Act, to be taken for violation cases, in accordance with law.

Based on the above, The State Expert Appraisal Committee (SEAC) Tamil Nadu constituted a sub-committee vide its Lr.No.SEAC-TN/Karur/Site Inspection/2023 dated: 20.04.2023. Based on Minutes of the 369th SEAC Meeting, held on 20.04.2023, to inspect and study the field condition for the proposal seeking EC for the Existing Limestone Quarry over an Extent of 3.15.0 Ha located at S.F.No. 806/5 & 6, 807/3 of


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Thennilai Village, Kadavur Taluk, Karur District, Tamil Nadu. The Committee comprised of Shri. D. Narasimhan, Member, SEAC.


The Sub Committee report was placed in 416th SEAC meeting held on 13.10.2023. The observations made in the field and recommendation derived on the basis of the field visit are as below:

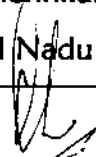
Chronology

Sl. No	Sequence of events	Date
1	Date of TOR Application with Online Proposal No. SIA/TN/MIN/23036/2018 (within Window Period) – Considered under Violation Category	02.04.2018
2	TOR Meeting – 106 th held on	05.04.2018
3	Awarded TOR: SEIAA-TN/F.No.6122/TOR-319/2018	10.05.2018
4	Applied for ToR Extension SIA/TN/MIN/209421/2021 – ToR Granted processed offline	16.04.2021
4	Applied for ToR Extension SIA/TN/MIN/268226/2022	16.04.2022
5	Extension ToR Granted: SEIAA-TN/F.No.6122/TOR-319/2018/Extn Dated: 26.09.2022	26.09.2022
6	EC Application vide Online Proposal No. SIA/TN/MIN/417124/2023	06.02.2023
7	Deliberation in 369 th Meeting held on	20.04.2023
8	Recommended for Site Visit by Sub Committee	20.04.2023

Salient Features of the Project

Particulars	Details
Name of Project	Thennilai Limestone Mining Lease under G.O.Ms.No.88, Industries (MMA2) Department
Project Proponent	Thiru. E. Dhanapal
Location of mine	Survey No: 806/5, 6 & 807/3, Thennilai Village, Kadavur Taluk, Karur District, Tamil Nadu


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Particulars	Details
Category of Project	B1
Proposed Capacity per Annum	40,622 TPA ROM (Peak production)
Mine Lease Area	3.15.0 Ha
Life of Mine	5.0 years
Total Working Day/Year	300 days
Total Number of workers employed	6
Total Water Requirement & Source	3.2 KLD Source collected rain water & from water vendors
Latitude & Longitude	10°45'42.89"N to 10°45'51.68"N Latitude & 78°16'42.93"E to 78°16'36.13"E Longitude
Topo Sheet number	58 J/05
Eco Sensitivity	Kadavur Slender Loris Sanctuary, Notified Eco Sensitive Area (ESA) vide S.O. 4500(E) dated 13.12.2019, is located at a distance of 15.5 km in South West direction from the Lease. The shortest Eco Sensitive Zone (ESZ) of Kadavur Slender Loris Sanctuary is 14.5 km in South West direction. There are no other Eco Sensitive Areas like National Parks, Wildlife Sanctuaries, Biosphere Reserves, Wildlife Corridors, Ramsar Sites, Tiger/Elephant Reserves, Reserved Forests, etc. (existing as well as proposed) within 10 km from the Lease.
Type of Land	Government & Patta Land
Method of Mining	Non – Conventional Opencast Method of Mining using Jackhammer drilling, Excavator for mining operation
Bench parameters	Height 4.0 meters & Width 6.0 m
Depth of Mining	25 m BGL


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Particulars	Details
Dimension of the Pit -Ultimate	Pit I – 157m (L) X 140m (W) X 25m (D)
Nearest railway station	Palayam – 16.0 km (South West)
Nearest Highway	Trichy - Coimbatore National Highway-81 – 20.0km- South East
Nearest air port	Trichy Airport at 46 km in East
Seismic zone	Zone-II
Cost of the Project	Rs.20.77 Lakhs

Mining Lease Details

Sl. No.	ML Grant	ML Grant Reference	Validity		Remarks
			From	To	
1	Initial Grant	G.O. Ms. No 88, Industries (MMA.2) Department Dated 29.03.1995	17.06.1995	16.06.2015	20 Years
2	MMDR (Amend) Act, 2015	-	17.06.2015	16.06.2045	30 Years

Mining Plan Details

Sl. No.	Mining Plan/Scheme	Plan Period	Approval vide IBM Letter Reference
1	Mining Plan	1995-96 to 1999-2000	TN/TCR/MP/LST-560-MDS, dated 02.03.1995
2	1 st Scheme of Mining	2007-08 to 2011-12	TN/KRR/LST/MS-438 MDS, dated 24.04.2007
3	2 nd Scheme of Mining	2010-2011 to 2014-2015	TN/KRR/LST/MS-651.MDS, dated 07.05.2012

4	Review of mining plan	2015-16 to 2019-20	TN/KRR/MP/LST-1933.MDS, dated: 17.09.2014
5	Review of mining plan	2020-21 to 2024-25	TN/KRR/LST/ROMP/1567.MDS Dated 21.10.2019

Details of Mining

Sl. No.	Particulars	Details
1	Method of mining	Non- Conventional Opencast Method of Mining (using jack hammer drilling, Controlled blasting and using Excavator)
2	Geological reserve	6,84,148 Tonnes of ROM 2,53,317 Tonnes of Limestone @ 30 – 60 % Recovery
3	Mineable reserve available- As on 28.08.2019	3,63,698 Tonnes of ROM 1,45,125 Tonnes of Limestone @ 30 – 60 % Recovery
4	Proposed production (Peak production)	3,63,698 Tonnes of ROM 1,45,125 Tonnes of Limestone @ 30 – 60 % Recovery
5	Elevation range of the mine site	Top RL 163 m AMSL
6	Bench height	4.0m
7	Bench width	6 m
8	Bench slope	45° to 60° to vertical
9	Proposed Depth of mining	25 m BGL
10	Life of mine	5.0 years

Past Production Details

Year	Proposal (Tonnes)			Actual (Tonnes)		
	ROM (Ts)	Limestone @ 60% (Ts)	Mineral Reject @ 40% (Ts)	ROM (Ts)	Limestone @ 60% (Ts)	* Mineral Reject & Waste @ 40% (Ts)
2015-16	21949	13170	8780	11075	6645	4430
2016-17	20218	12131	8087	33302	19981	13321
2017-18	20467	12280	8187	-	-	-
2018-19	19614	11769	7846	-	-	-
2019-20	19989	11993	7996	-	-	-
TOTAL	102237	61342	40895	44377	26626	17751


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Proposed Production Details

As per the Review of Mining Plan approved by Indian Bureau of Mines vide Letter No. Lr.No. TN/KRR/LST/ROMP/1567.MDS Dated 21.10.2019, the proposed production is as follows.

Year	ROM (Ts)	Limestone @ 30% Recovery (Ts)	* Mineral Rejects @ 30% (Ts)		Waste @ 40% (Ts)	Side burden (Ts)	Overburden (Ts)	Total Waste (Overburden + Waste @ 67% + Side burden) (Ts)	Ore waste ratio
			** 3% Limestone	27% Waste					
2020-21	121935	36580	3658	32922	48774	37929	14810	134435	1:3.34
2021-22	121711	36513	3651	32862	48684	56857	11040	149443	1:3.72
Year	ROM (Ts)	Limestone @ 60% Recovery (Ts)	-	-	Waste @ 40% (Ts)	Side burden (Ts)	Overburden (Ts)	Total Waste (Waste @ 40% + Side burden) (Ts)	Ore waste ratio
2022-23	40622	24373	-	-	16249	6833	-	23082	1:0.95
2023-24	42432	25459	-	-	16973	6053	-	23026	1:0.90
2024-25	36998	22199	-	-	14799	-	-	14799	1:0.67
Grand Total	363698	145125	7309	65784	145479	107671	25850	344785	1:2.26

Violation Category

Thiru. E. Dhanapal has operated Thennilai Limestone Mine under G.O.Ms.No.88, Industries (MMA2) Department after 15.01.2016 till 28.03.2016 and produced/transported 2,250 Tonnes of Limestone. Operating the Lease after 15.01.2016 without EC is in Violation of EIA Notification 2006 (as amended). The Violation Period


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was 55 Days. The mining activities were stopped from 28.03.2016 and there was no production from this Mine since then.

Sl. No.	Statute Requirement	Yes / No	Violation Status	Remarks
1	Valid EC	X	Operating the Lease after 15.01.2016 for a Production of 2,250 Tonnes Limestone leads to Violation. Applied for EC on 09.04.2017	EC was not required for this Mine (<5 Ha) upto 15.01.2016.
2	Valid CTO	X	CTOs was Not obtained	Violation operating the mine without CTO
3	Valid Mining Plans/Schemes	✓	IBM has accorded the periodic Approvals for Mining Plans/Schemes of the Mine. 2 nd ROMP was approved by IBM vide Letter No. TN/KRR/LST/ROMP/1567.MDS Dated 21.10.2019 which was valid up to 28.08.2024. Present ROMP is valid till 28.08.2024.	There is No Violation in this regard.
4	Forest Clearance	-	No Forest Land involved.	Not Applicable
5	Transport Permits	✓	Thiru. E. Dhanapal has obtained the required Transport Permits.	There is No Violation in this regard.
6	Any other Violation	-	Nil	Nil


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Land Use Pattern

As per the Review of Mining Plan approved, the excavated area shall be around 2.19.8 Ha at the end of mining operation. The mined out pit area will be backfilled with waste dump. About 0.22 Ha (7.0%) will be under Green Belt, pertaining to this particular Lease.

S.No	Description	Present Area (Ha)	Additional area required during the present MP Period (Ha) [2020-21 to 2024-25]	Area at the end of life of mine (Ha)
1	Mining (Quarry)	1.34.8	0.85.0	2.19.8
2.	Waste Dump	0.33.6	0.33.6*	0.33.6*
3.	Office & infrastructure	0.01.0	Nil	0.01.0
4.	Stock pile	0.05.5	Nil	Nil
5.	Sub grade mineral dump	0.07.3	Nil	Nil
6.	Mine roads	0.04.0	Nil	0.04.0
7.	Areas under plantation	0.07.0	0.15.0	0.22.0
8.	Un utilized area	1.21.8	0.34.6	0.34.6
9.	Total	3.15.0		3.15.0

Ecological Damage Assessment

Other than operating the Mine without required EC after 15.01.2016, and one more violation observed that the mine was operated without CTO there. Thiru. E. Dhanapal received the Demand Notice from the District Collector, Karur for 100% cost of Mineral value of Limestone quantity produced i.e.2,250 Tonnes without EC vide Rc. No. 438/Mines/2019 dated 02.08.2019 for Rs.9,57,375/-. Thiru. E. Dhanapal not remitted the amount to Department of Geology and Mining.


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OBSERVATIONS OF THE SEAC SUB-COMMITTEE DURING THE PROJECT SITE INSPECTION

1. The company was granted Limestone Mining Lease as per Amended MMDR Act 2015, validity of the Lease is upto March 31, 2030.
2. Other than the 2 Leases of <5 Ha extent, other Leases are having valid ECs, approved Mining Plans and Consents to Operate, as reported. Thus, the mining operations in the Pit are subjected to compliance of existing EC conditions and CTO conditions. As reports produced to the Sub Committee, the EC conditions were reportedly complied.
3. Sub Committee has visited Kallakudi Pit No. 1, Pit No. 2 and Kovandakurchi Pit No. 3 during the Inspection to have over all mining scenario in Kallakudi Region
4. There were no mining activities carried out in the Pit.
5. Fencing is very poor and damaged.
6. There are no habitations within 500-meter radius area from the mining lease boundary and no structures exists within 1 km.
7. The PP have got Approved Mining Plan from IBM for the Project from time to time without any break with sending the draft copy of the Mining Plan well in advance to the competent authority.
8. Rain water accumulated in part of pit bottom noticed.
9. The waste rocks generated during mining was dumped outside mining lease area.
10. No Ground Water-table intersection or seepage was noticed in the existing benches.
11. No Green Belt was developed along the periphery of Mine Pits including in Safety Barriers, waste dumps, Mineral transport road.
12. Garland Drains are not provided along the periphery but its maintenance has to be enhanced after the commencement of mining operations.
13. Additional plantation as per the proposals given in EIA shall be developed.

STATUS OF MINING OPERATION

The mining activities were stopped from 28.03.2016 and there was no production from this Mine since then.


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MINING PLAN APPROVALS

The Regional Controller of Mines, Indian Bureau of Mines (IBM), Chennai has accorded its Approval periodically for Mining Plans/Schemes. For recent Review of Mining Plan (ROMP) for the Period 2020-21 to 2024-25 vide Letter No. TN/KRR/LST/ROMP/1567.MDS Dated 21.10.2019.

CONCLUSIONS & RECOMMENDATIONS

The SEAC Sub-Committee observed that the Mining of Limestone in an extent of 3.15.0 Ha in SF No. 806/5, 6 & 807/3 for Environmental Clearance under violation comes under the "Low level Ecological damage category" as per the SEAC Violation norms. As the Proposal falls in Low Level Ecological Damage and EMP measures were in place (collectively for Thennilai Limestone Mine) during the Violation Period, the Sub-Committee is of the opinion that the minimum Environmental Compensation of for 55 days of Violation under CPCB Guidelines will be Rs.5,50,000/- which has to be compensated as follows:

Sl. No.	Activity Proposed	Total, Rs.
1	Cost of Ecological Damage Remediation Plan	1,50,000/-
2	Natural Resource Augmentation Plan	1,50,000/-
3	Community Resource Augmentation Plan	2,50,000/-
Grand Total		5,50,000/-

Hence, the subcommittee opines the grant of Environmental Clearance for Mining of Limestone in an extent of 3.15.0 Ha in SF No. 806/5, 6 & 807/3 of M/s. Thiru. E. Dhanapal located in Thennilai village, Kadavur Taluk, Karur District may be considered for the Annual Peak Production Capacity of ROM of 42432 m³ to the Ultimate pit depth of 25 m for the Life of the mine of 5 years only subject to the following conditions in addition to the normal conditions:

1. The grant of EC is subject to the production of the 'No Dues Certificate' from the State Government (i.e. Department of Geology & Mining) by the PP for the penalty levied by the District Collector to the SEIAA, based on the outcome of the Interim Stay ordered by the Madras High Court.


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2. As the lease period is going to get expired on 16.06.215, The Lessee was prepared and submitted the renewal of mining lease application to State Government on 04.06.2015 for a further period of 20 years (from 17.06.2015 to 16.06.2035). The renewal application is pending with the government as the area of extent (806/5, 0.72.0 Ha) belongs to Govt Paromoboke land and the remaining area (806/6-1.13 Ha & 807/3-1.30.0 Ha) belongs to Patta category.
3. The amount prescribed for Ecological remediation (Rs. 1.50 Lakhs), natural resource augmentation (Rs. 1.50 lakhs) & community resource augmentation (Rs.2.50 Lakhs), totaling Rs. 5.50 Lakhs. Hence the SEAC decided to direct the project proponent to remit the amount of Rs. 5.50 Lakhs in the form of bank guarantee to Tamil Nadu Pollution Control Board and submit the acknowledgement of the same to SEIAA-TN. The funds shall be utilized for the remediation plan, Natural resource augmentation plan & Community resource augmentation plan as indicated below:

ECOLOGICAL REMEDIATION PLAN WITH BUDGET

Env Component	Remediation Measures for Environmental damage	1st Year (in Rs)	2nd Year (in Rs)	3rd Year (in Rs)	Total (Rs.)
Air Environment	water sprinkler in the haul road and mines	15,000			15,000
Water Environment	Renovation of Rain Water Harvesting Pits		20,000		20,000
Land Environment	Renovation of Garland Drains	25,000			25,000
Ecological Environment	Avenue Plantation	20,000	20,000		40,000
Socio economic environment	Solar Lighting Facilities along the village roads	50,000			50,000
Total					1,50,000

4. The project proponent shall carry out the works assigned under ecological damage, natural resource augmentation and community resource augmentation within a period of three years from the issue of EC. If not, the bank guarantee will be forfeited to TNPCB without further notice.
5. The project proponent shall submit the proof for the action taken by the state Government/TNPCB against project proponent under the provisions of Section 19 of the Environment (Protection) Ac, 1986 as per the EIA Notification dated: 14.03.2017 and amended 08.03.2018.

NATURAL RESOURCE AUGMENTATION PLAN WITH ACTION PLAN

Environmental components	Natural Resource Augmentation	1 st Year	2 nd Year	3 rd Year	Total (Rs.)
Water Environment	Rain water harvesting structures at prominent place in the Thennilai village	20,000 Implementation	20,000 Installation	10,000 Maintenance	50,000
Air Environment	Providing trees in three tier system around project area as air barrier	20,000 Plantation	20,000 Plantation	10,000 Maintenance	50,000
Land / Soil Environment	Providing Agricultural needs for 2 families	25,000	25,000		50,000
TOTAL					1,50,000

Conservation of a Vulnerable and Endemic species, *Jatropha heynei*, a tuberous perennial:

The proposed quarry site has a sizable population of an Endemic and a vulnerable species, *Jatropha heynei*. This species occurs in isolated dry pockets of Southern and Central India with a low population. It deserves conservation. Hence it is suggested that

25 numbers of this plant may be dug up without damaging the tuber and provided to Botanical Survey of India, Coimbatore. Another 25 numbers may also be distributed to Yogi Vemanna Botanic Garden, Yogi Vemanna University, Kadapa Andhra Pradesh, as the site provides a similar habitat.

In addition seeds may also be collected and dispersed in similar habitats for regeneration.

THE COMMUNITY RESOURCES DEVELOPMENT PLAN SPECIFIC TO THE REGION ALONG WITH ACTION PLAN

Sl.No	Community Resource Development	Beneficiaries	1 st Year	2 nd Year	3 rd Year	Total (Rs.)
1	Tree Plantation	Thennilai Village	50,000	-	-	50,000
	Toilet Renovation & Maintenance	Government School	1,00,000			1,00,000
	Provision of smart board, desk, chair, fan etc		1,00,000			1,00,000
	TOTAL					2,50,000

STATUTORY PROCEDURES TO BE FOLLOWED:

1. The Bank Guarantee for Rs. 5,50,000/- to be given to TNPCB for successful implementation of the Schemes in a period of 3 years. The Bank Guarantee will be released after successful implementation of the Remediation Plan and Natural and Community Resource Augmentation Plan.
2. Credible Action under Section 19 of the E(P) Act shall also be complied for awarding the EC.
3. The PP shall furnish the 'No Objection Certificate' issued by the office of Director, Geology and Mining for the penalty levied by the District Collector to the SEIAA, for carrying out the quarrying operations as per the 'Review of mining plan' for the period of 2020-21 to 2024-25 which was approved vide Lr. No. TN/KRR/LST/ROMP/1567.MDS Dated 21.10.2019.


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SEAC RECOMMENDATIONS

Even though the PP had submitted the Environmental Compension indicating the contribution towards to Ecological Damage Remediation Plan, Natural Resouse Augmentation and Community Resource Augmentation Plan for obtaining the EC under violation category, the SEAC has observed that the PP had not carried out the Public Hearing for the above proposal involving mining of major mineral, i.e., Limestone as all the major minerals are considered to be B1 Category vide MoEF OM 2013 {No. J-13012/12/2013-1A-11 (I)} - Categorization of Category '8' projects/activities into Category 'B1' & 'B2', 24th December, 2013 which spells out

"The guidelines for categorization of Category 'B' projects/activities into Category 'B1' & 'B2' are applicable only to those projects/activities mentioned above. All the other Category 'B' projects/activities listed under the Schedule of EIA Notification, 2006 and its amendments shall be considered as Category 'B1' projects and appraised as per the procedure prescribed in the EIA Notification"

Further, it is pertinent to observe that the EIA Notification dated 14.09.2006 has been amended vide Notifications dated 15.01.2016, 20.01.2016, 01.07.2016 and later, the EIA Notification 2018, dated.14.08.2018 which comments on the 'Mining of Minerals' with the 'Category with Threshold limit' of "<50 ha \geq 5 ha of mining lease area" specified as 'B' Category in the EIA Notification, 2006 is replaced with "<100 ha of mining lease area in respect of non-coal mine lease". Here, the mining of mineral was classified into B1 & B2 categories stipulating the conditions as given below:

- (iii) *for project or activity of mining of minor minerals of Category 'B2' (up to 25 ha of mining lease area);*
- (iv) *for project or activity of mining of minor minerals of Category 'B1' in case of cluster of mining lease area; and*

The NGT Order (O.A. No. 186/2016) titled as Satendra Pandey vs. MoEF&CC & Anr., vide order dated 13.09.2018 and relevant part of the order reads as under:-

"21. Dispensing with the requirement of Public Hearing which forms a part of the Public Consultation under Stage-III of the Environmental Clearance process under EIA Notification, 2006 for areas measuring 0 to 25 ha for individual mine areas and in cluster situation where

public hearing has been provided, has resulted in gross dilution of EIA

Notification dated 14th September, 2006....”

Accordingly, the MoEF & CC, vide its OM F.No. L-11011/175/2018-IA011 (M) dated. 12.12.2018, has inter-alia directed as follows:

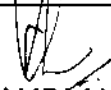
“....(i) Providing for EIA, EMP and therefore, Public Consultation for all areas from 5 to 25 ha falling member Category B-2 at par with Category B-1 by SEAC/SEIAA as well as for cluster situation wherever it is not provided;....

Now, it has been made clear that the Public Hearing is required to be conducted for the *areas measuring 5 to 25 ha for individual mine areas and also in cluster situation even in case of minor minerals.*

Hence, it has been established that the procedures stipulated for the appraisal of the projects involving the Mining of Minerals for obtaining the prior Environmental Clearance (or) Environmental Clearance under EIA Notification 2006 in consonance with EP Act 1986, are as follows:

Type of Mineral	B1		B2	
	Applicability	Obligatory	Applicability	Obligatory
Minor Minerals	<i>for project or activity of mining of minor minerals (Individual Mine Lease) possessing the mining lease area of extent of 5 ha or more.</i>	<i>Form -I, PFR, DSR and Approved Mine Plan and EIA and EMP; Public Hearing.</i>	<i>for project or activity of mining of minor minerals possessing the mining lease area of extent less than 5 ha.</i>	<i>Comprehensive Form -1M, PFR, DSR and Approved Mine Plan and EMP.</i>
Minor Minerals	<i>for project or activity of mining of minor minerals in case of cluster of mining lease areas possessing the</i>	<i>Form -I, PFR, DSR and Approved Mine Plan and EIA and EMP;</i>	<i>for project or activity of mining of minor minerals in case of cluster of mining lease areas possessing</i>	<i>Comprehensive Form -1M, PFR, DSR and Approved Mine Plan and One</i>


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	<p>cumulative mining lease area of extent of 5 ha or more, as defined in EIA Notifications, S.O.141 (E), 15.01.2016 & S.O. 2269(E), 01.07.2016.</p>	<p>Public Hearing.</p>	<p>the cumulative mining lease area of extent of less than or upto 5 ha, as defined in EIA Notifications, S.O.141 (E), 15.01.2016 & S.O. 2269(E), 01.07.2016.</p>	<p>EMP for all leases in the Cluster.</p>
Major Minerals	<p>for project or activity of mining of minor minerals (Individual Mine Lease) (OR) in case of cluster of mining lease areas possessing the cumulative mining lease area of extent of ≤ 250 ha of mining lease area in respect of non-coal mine lease; Hence, vide amended Notifications S.O. 1886(E) dated 20.04.2022, it shall</p>	<p>Form -I, PFR, DSR and Approved Mine Plan and EIA and EMP; Public Hearing.</p>	<p>It is well-known that there is no need of prior environmental clearance for the mining projects of major minerals of lease area less than 5 ha as per EIA Notification, 2006 either from the State Government or the Central Government till 15.01.2016.</p> <p>However, the EIA Notification S.O. 141, dated. 15.01.2016 with subsequent amendments has defined the scope for project or activity of mining of minor minerals only to be considered as Category 'B2' with area of extent less than 5 Ha. Further, the</p>	

	<p>be dealt by the SEIAA/SEAC under the 'Category B';</p> <p>However, the EAC (MoEF & CC) will process the proposals of (i) >250 ha mining lease area in respect of major mineral mining lease other than coal; (ii) >500 ha of mining lease area in respect of coal mine lease.</p> <p>(iii) Asbestos mining irrespective of mining area, under the 'Category A'.</p>		<p>Mining of Major Minerals are treated under the Category of 'B1' as there is no Notification/OM/Circular issued by the Competent Authority describing the Category of Major Mineral possessing mining lease area of less than 5 Ha as 'B2'.</p>
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Recently, the MoEF & CC vide its Notification S.O. 2163 (E) , dated. 09.05.2022 clearly states that

"....Whereas, the Central Government in the erstwhile Ministry of Environment and Forests, in exercise of its powers under sub-section (1) and clause (v) of sub-section (2) of section (3) of the Environment (Protection) Act, 1986 has published the Environment Impact Assessment Notification, 2006 (hereinafter referred to as the EIA Notification, 2006) vide number S.O.1533 (E), dated the 14th September, 2006, for mandating prior Environmental Clearance (EC) for certain category of projects; And whereas, for the grant of prior EC, public hearing is mandatory and it is an integral part of the EC process,

unless specifically exempted for certain activities as mentioned in the EIA Notification 2006, as amended from time to time.....”

Therefore, after the long deliberations and discussions in the 416th SEAC Meeting, the SEAC has observed that the Public Hearing is mandatory for all mining projects of major mineral category irrespective of the area for ensuring the scientific & systematic mining and the conservation of major minerals, as per the provisions of the EIA Notification, 2006 as amended from time to time. Further, it is also noted that Public Hearing is a pre-requisite for the following mining projects: (i) If the proposal is a new one. (ii) If a major mineral project is being submitted for environmental clearance to MOEF for the first time for proposed production and or lease area.

Based on the impact of the above EIA Notifications and legal implications observed by the Hon'ble NGT Judgements, the SEAC has decided to direct the PP to conduct the Public Hearing (PH) as per the procedure prescribed in EIA Notification, 2006 and submit the minutes of the PH with action plan, for considering the application/proposal towards the grant of EC.

After the receipt of the minutes of the Public Hearing submitted by the PP along with a valid Mining Lease, and approved Mining Plan/Scheme of Mining including the PMCP/FMCP for the proposed mining operations, the SEAC may deliberate the future course of action.

Agenda No. 416- TA: 03


(File No. 6523/2018)

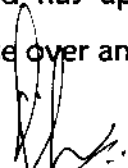
Existing Limestone Mine lease over an extent of 1.11.0 Ha at S.F.Nos. 1101/2B, 1101/4, 1101/5, 1101/3B & 1101/6B of Thenmalai Village, Sivagiri Taluk, Tirunelveli District, Tamil Nadu by M/s. JanathaCem Industries Limited - for Environmental Clearance. (SIA/TN/MIN/418028/2023,dated 13.02.2023)

The proposal was placed in 369th Meeting of SEAC held on 21.04.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, M/s.JanathaCem Industries Limited has applied for Environmental Clearance for the existing Limestone Mine lease over an extent of


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1.11.0Ha at S.F.Nos. 1101/2B, 1101/4, 1101/5, 1101/3B & 1101/6B of Thenmalai Village, Sivagiri Taluk, Tirunelveli District, Tamil Nadu.

2. The project/activity is covered under Category "B1" of Item 1(a) "Mining of Mineral Projects" of the Schedule to the EIA Notification, 2006.
3. ToR issued vide Lr.No.SEIAA-TN/F.No.6523/ToR-394/2018 Dated: 16.05.2018.
4. ToR Extension issued vide Lr No - SEIAA- TN/F.No. 6523/ToR-394/Ext, Dated 26.09.2022.
5. Public Hearing - As per MoEF & CC Office Memorandum – F.No.22-28/2020.IA.III Dated: 12.11.2020 (Point No.5).


Based on the presentation made and documents furnished by the project proponent, the SEAC decided to constitute a Sub Committee to make an on-site inspection to assess the present status of the project site and environmental settings as the proposal falls under violation category and submit the report along with the recommendations to the Committee.

Further the Committee called for the following additional details:

1. A letter from the Project Proponent justifying that the project activity is covered under Category "B2" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006, as amended.
2. Copy of approved review of scheme of mining plan by the competent authority of the Dept of Geology and Mining for the proposed period of quarrying.
3. The PP shall furnish the copy of receipt of the penalty levied by the Dept of Geology and Mining for the exploitation of mineral without prior EC.

Meanwhile, the SEAC decided to constitute a sub-committee to make on-site inspection to assess the present status of the proposed project, environmental settings and to assess ecological damage assessment whether it is being carried out in accordance with CPCB Guidelines, remediation plan, natural resource augmentation and community resource augmentation.

After the receipt of the additional details from the proponent and the evaluation report by the Sub-committee, the SEAC will deliberate on the issue of Environmental Clearance under violation category. SEAC also decided to request SEIAA-TN to initiate action under Sec. 19 of the Environment (Protection) Act, to be taken for violation cases, in


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accordance with law.

The State Expert Appraisal Committee (SEAC) Tamil Nadu constituted a subcommittee vide its Lr.No. SEAC-TN/Site Inspection/2023 dated 20.04.2023 to inspect and study the field condition for the proposal seeking EC. The Committee comprises of Dr. G. Anne Josephine Selvam, Member, SEAC and Dr. B. Gowtham, Member, SEAC.

As per the above letter the sub-committee visited the site on 08.05.2023.

The Sub Committee report was placed in 416th SEAC meeting held on 13.10.2023. The observations made in the field and recommendation derived on the basis of the field visit are as below:

Chronology

Sl. No	Sequence of events	Date
1	Date of TOR Application with Online Proposal No. SIA/TN/MIN/65534/2017 (within Window Period) – Considered under Violation Category	18.06.2017
2	As per Gazette Notification S.O. 3977 (E) Dated 14.08.2018 Category B Project redirected to SEIAA - Date of TOR Application with Online Proposal No. SIA/TN/MIN/27510/2018	18.06.2017
3	Date of TOR Application with Online Proposal No. SIA/TN/MIN/23107/2018	31.03.2018
4	TOR Meeting – 109 th held on	25.04.2018
5	Awarded TOR: SEIAA-TN/F.No.6523/TOR-394/2018	16.05.2018
6	Applied for ToR Extension SIA/TN/MIN/267741/2022	13.04.2022
7	Extension ToR Granted with PH: SEIAA-TN/F.No.6523/TOR-394/Extn Dated: 26.09.2022	26.09.2022
8	EC Application vide Online Proposal No. SIA/TN/MIN/418028/2023	19.04.2023
9	Deliberation in 369 th Meeting held on	20.04.2023
10	Recommended for Site Visit by Sub Committee	20.04.2023


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Salient Features of the Project

Particulars	Details
Name of Project	Thenmalai Limestone Mines
Project Proponent	M/s. Janatha Cem Industries Limited
Location of mine	SF No. 1101/2B, 1101/4,1101/5,1101/3B & 1101/6B Thenmalai village, Sivagiri Taluk, Tirunelveli district
Category of Project	B1
Proposed Capacity per Annum	26,520 TPA ROM (Peak production)
Mine Lease Area	1.11.0 Ha
Life of Mine	6.5 years
Total Working Day/Year	264 days
Total Number of workers employed	17
Total Water Requirement & Source	2.5 KLD Source collected rain water & from water vendors
Latitude & Longitude	09°19'40.44"N to 09°19'48.08"N 77°32'26.52"E to 77°32'30.12"E
Topo Sheet number	58 G/11
Eco Sensitivity	Srivilliputhur Grizzled Squirrel wildlife Sanctuary, Notified Eco Sensitive Area (ESA) vide S.O. 4500(E) dated 13.12.2019, is located at a distance of 14.5 km in North west direction from the Lease. The shortest Eco Sensitive Zone (ESZ) of Srivilliputhur Grizzled Squirrel wildlife Sanctuary is 13.5 km in North west direction. There are no other Eco Sensitive Areas like National Parks, Wildlife Sanctuaries, Biosphere Reserves, Wildlife Corridors, Ramsar Sites, Tiger/Elephant Reserves, Reserved Forests, etc. (existing as well as proposed) within 10 km from the Lease.

Particulars	Details
Type of Land	Patta Land
Method of Mining	Non – Conventional Opencast Method of Mining using Jackhammer drilling. Excavator for mining operation
Bench parameters	Height 4 meters & Width 6 m
Depth of Mining	37 m BGL
Dimension of the Pit -Ultimate	Pit – 223m (L) X 45m (W) X 46m (D)
Nearest railway station	Rajapalayam – 14 km - (North)
Nearest Highway	NH 208 – Kollam – Thirumangalam – 11.0km –West
Nearest air port	Madurai Airport at 82.0 km in North east
Seismic zone	Zone-II
Cost of the Project	Rs.17.65 Lakhs

Mining Lease Details

Sl. No.	ML Grant	ML Grant Reference	Validity		Remarks
			From	To	
1	Initial Grant	G.O. MS.No 354, Industries Department Dated 15.03.1984	23.07.1984	22.07.1987	3 Years
2	First Renewal	G.O. MS.No 171, Industries Department Dated 16.03.1989	23.07.1987	22.07.1997	10 Years
3	Second Renewal	second renewal of mining lease application was submitted on	Copy of renewal of Mining Lease application in form-J with acknowledgement in Form-D from State Government		


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		26.06.1996			
4	MMDR (Amend) Act, 2015	-	26.03.2015	22.07.2034	

Mining Plan Details

Sl. No.	Mining Plan/Scheme	Plan Period	Approval vide IBM Letter Reference
1	Scheme of Mining	2010-11 to 2014-15	TN/TNL/LST/MS-963.MDS, dated 26.11.2013
2	Scheme of Mining	2015-16 to 2019 -20	TN/TNL/LST/MS-1277.MDS, dated 18.12.2015
3	Modified Mining plan	2017-18 to 2019-20	TN/TNL/LST/MP-2026.MDS, dated: 06.06.2017
4	Review of mining plan	2020-21 to 2024-25	TN/TNL/LST/ROMP-1630.MDS, dated: 30.12.2020

Details of Mining

Sl. No.	Particulars	Details
1	Method of mining	Non- Conventional Opencast Method of Mining (using jack hammer drilling. Controlled blasting and using Excavator)
2	Geological reserve	2,74,467 Tonnes of ROM
3	Mineable reserve available- As on 07.08.2019	1,53,897 Tonnes of ROM Recovery was 100%(80% high grade+20% low grade) limestone
4	Proposed production (Peak production)	26,520 tonnes ROM Recovery was 100% (80% high grade+20% low grade) limestone

5	Elevation range of the mine site	Top RL 134 m
6	Bench height	4.0m
7	Bench width	6 m
8	Bench slope	45° to 60° to vertical
9	Proposed Depth of mining	37 m BGL
10	Life of mine	6.5 years

Past Production Details


Year	Proposal (Tonnes)			Actual (Tonnes)		
	ROM (Ts)	High Grade Limestone @ 80% (Ts)	Low Grade @ 20 % (Ts)	ROM (Ts)	High Grade Limestone @ 80% (Ts)	Low Grade @ 20 % (Ts)
2017 - 18	17984	14387	3597	The mine was temporarily discontinued from January 2017 due to statutory reasons. Hence the Actual Production was NIL		
2018 - 19	18720	14976	3744			
2019 - 20	13146	10516	2629			

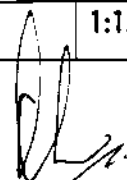
Proposed Production Details

As per the Review of Mining Plan approved by Indian Bureau of Mines vide Letter No. Lr.No. TN/TNL/LST/ROMP-1630.MDS, dated: 30.12.2020, the proposed production is as follows.

Summary of Yearwise (2020-21 to 2024-25)

Year	ROM (Ts)	High Grade Limestone @ 80% (Ts)	Low Grade @ 20 % (Ts)	Top Soil (Ts)	Side Burden (Ts)	Ore waste ratio
2020 - 21	25511	20409	5102	4230	38168	1:1.50


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2021- 22	24107	19286	4821	-	24591	1:1.02
2022 – 23	24461	19569	4892	-	28205	1:1.15
2023 – 24	26520	21216	5304	-	20904	1:0.79
2024 – 25	22750	18200	4550	-	25667	1:1.13
Total	123349	98679	24670	4230	137535	1:1.12

Ecological Damage Assessment

Other than operating the Mine without required EC after 15.01.2016, and one more violation observed that the mine was operated without CTO. M/s. Janathacem Industries Limited received the Demand Notice from the District Collector, Tirunelveli for 100% cost of Mineral value of Limestone quantity produced i.e.45,000 Tonnes without EC vide Rc. No. M1/29423/2019-19 dated 20.08.2019 for Rs.2,09,31,000/-. M/s. Janathacem Industries Limited has Not remitted the amount to Department of Geology and Mining.

OBSERVATIONS OF THE SEAC SUB-COMMITTEE DURING THE PROJECT SITE INSPECTION

1. Sub Committee has visited Thenmalai Limestone Mine (F.No. 6523) during the Inspection to have over all mining scenario.
2. Lease area is extent of 1.11.0 Ha in SF No. 1101/2B, 1101/4,1101/5,1101/3B & 1101/6B and is operated with two leases previously and third lease is obtained which is valid up to 27.03.2034 (As per Amended MMDR Act 2015).
3. Lease area is compeltely wire fenced in all side.
4. Nearest settlements/habitations are observed in 320 m along the southeast direction.
5. Nearest water bodies is 100m in the north and pond at 5 km northwest.
6. There was no mining activities in the lease area pit.
7. Rain water accumulated in the Pit and atleast 5 meters are covered in water, as noticed.
8. During Violation Period, Non – Conventional Opencast Method of Mining using Jackhammer drilling, Excavator for mining operation were carried out in the Lease.
9. There was no Top Soil and Over Burden generation during the Period and thus

no waste dump in the Lease.

10. During violation period (from 15.01.2016 to 10.01.2017) around 45, 000 Tonnes of Limestones has been mined and transported.
11. Penalty Amount of Rs. 2,09,31,000 (Two crores nine lakhs thirty one thousand only) has been imposed as per the District collector Letter No 1/29423/2019-19 Dated 20.08.2019 which has not been paid by the Proponent. The mine owners had appealed in the Madurai Bench of Madras High court W.P. No. 24463/2018 for the violation cases to revised the penalty cost and is pending with Madurai bench of High court.
12. No Ground Water-table intersection as noticed in the existing benches of the Pit No. 1.
13. Statuary documents like Patta, FMB sketch, Village Map, Mining Lease G.O. copy, River of mining plan approval letter, HEMM Permission letter, Permission letter to Amalgamation, penalty letter from the District Collector are verified.
14. There are six mining lease got amalgamation total extent of the mining leases (6 leases) 10.96.0 Ha.
15. As per the committee recommendations, 500 trees per hectare and total number of trees would be around 6,600 trees will be planted by the proponent. Considering the 80% survival 5,480 trees are expected to grow.
16. Green Belt, common in the lease area, was developed along the periphery of Mine Pits including in Safety Barriers.
17. Garland Drains are not provided along the periphery.
18. Green belt developed along the eastern side boundaries are infested with *Procopius juliflora* which are to be eradicated and additional green belt shall be developed.
19. Overall, the EIA report has predicted that the project will comply with all environment standards and legislation after commencement of the project and operational stage mitigation measures are implemented.
20. Re opening of this mining will meet the raw material requirement for the CAPTIVE cement plant
21. Direct and Indirect Employment opportunities will create due to this project

22. Sustainable and modern mining leads us to see positive impact of mining operation and providing employment for nearly 90 people directly.

23. The capital EMP cost for the proposed mining activity is Rs. 25,18,583/- and recurring EMP cost is Rs. 7,60,083/-.

24. The CSR activities was carried in the Government school with a cost of Rs. 5.00 lakhs.

25. Project Cost is Rs.17.65 Lakhs.

CONCLUSIONS & RECOMMENDATIONS:

As the Proposal falls in Low Level Ecological Damage and EMP measures were in place (collectively for Thenmalai Limestone Mine) during the Violation Period, the Sub-Committee is of the opinion that the Maximum Environmental Compensation of Rs.30,00,000/- as per the CPCB Guidelines shall be levied. Accordingly, the maximum Environmental Compensation for will be Rs.30,00,000/- which has to be compensated as follows :


Sl. No.	Activity Proposed	Total (Rs.)
1	Cost of Ecological Damage Remediation Plan	12,00,000
2	Natural Resource Augmentation Plan	9,00,000
3	Community Resource Augmentation Plan	9,00,000
Grand Total		30,00,000

STATUTORY PROCEDURES TO BE FOLLOWED:

1. The Bank Guarantee for Rs. 30,00,000/- has to be given to TNPCB for successful implementation of the Schemes in 5 years period. The Bank Guarantee will be released after successful implementation of the Remediation Plan and Natural and Community Resource Augmentation Plan.
2. Credible Action under Section 19 of the E(P) Act shall also be complied for awarding the EC.

SEAC RECOMMENDATIONS

Even though the PP had submitted the Environmental Compension indicating the contribution towards to Ecological Damage Remediation Plan, Natural Resouse


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Augmentation and Community Resource Augmentation Plan for obtaining the EC under violation category, the SEAC has observed that the PP had not carried out the Public Hearing for the above proposal involving mining of major mineral, i.e., Limestone as all the major minerals are considered to be B1 Category vide MoEF OM 2013 {No. J-13012/12/2013-IA-11 (I)} - Categorization of Category 'B' projects/activities into Category 'B1' & 'B2', 24th December, 2013 which spells out

"The guidelines for categorization of Category 'B' projects/activities into Category 'B1' & 'B2' are applicable only to those projects/activities mentioned above. All the other Category 'B' projects/activities listed under the Schedule of EIA Notification, 2006 and its amendments shall be considered as Category 'B1' projects and appraised as per the procedure prescribed in the EIA Notification"

Further, it is pertinent to observe that the EIA Notification dated 14.09.2006 has been amended vide Notifications dated 15.01.2016, 20.01.2016, 01.07.2016 and later, the EIA Notification 2018, dated.14.08.2018 which comments on the 'Mining of Minerals' with the 'Category with Threshold limit' of "<50 ha \geq 5 ha of mining lease area" specified as 'B' Category in the EIA Notification, 2006 is replaced with "<100 ha of mining lease area in respect of non-coal mine lease". Here, the mining of mineral was classified into B1 & B2 categories stipulating the conditions as given below:

- (v) for project or activity of mining of minor minerals of Category 'B2' (up to 25 ha of mining lease area);
- (vi) for project or activity of mining of minor minerals of Category 'B1' in case of cluster of mining lease area; and

The NGT Order (O.A. No. 186/2016) titled as Satendra Pandey vs. MoEF&CC & Anr., vide order dated 13.09.2018 and relevant part of the order reads as under:-

"21. Dispensing with the requirement of Public Hearing which forms a part of the Public Consultation under Stage-III of the Environmental Clearance process under EIA Notification, 2006 for areas measuring 0 to 25 ha for individual mine areas and in cluster situation where public hearing has been provided, has resulted in gross dilution of EIA Notification dated 14th September, 2006...."


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Accordingly, the MoEF & CC, vide its OM F.No. L-11011/175/2018-IA01I (M) dated. 12.12.2018, has inter-alia directed as follows:

"....(i) Providing for EIA, EMP and therefore, Public Consultation for all areas from 5 to 25 ha falling member Category B-2 at par with Category B-1 by SEAC/SEIAA as well as for cluster situation wherever it is not provided;....

Now, it has been made clear that the Public Hearing is required to be conducted for the *areas measuring 5 to 25 ha for individual mine areas and also in cluster situation even in case of minor minerals.*

Hence, it has been established that the procedures stipulated for the appraisal of the projects involving the Mining of Minerals for obtaining the prior Environmental Clearance (or) Environmental Clearance under EIA Notification 2006 in consonance with EP Act 1986, are as follows:


Type of Mineral	B1	B2		
	Applicability	Obligatory	Applicability	Obligatory
Minor Minerals	for project or activity of mining of minor minerals (Individual Mine Lease) possessing the mining lease area of extent of 5 ha or more.	Form -I, PFR, DSR and Approved Mine Plan and EIA and EMP; Public Hearing.	for project or activity of mining of minor minerals possessing the mining lease area of extent less than 5 ha.	Comprehensive Form -1M, PFR, DSR and Approved Mine Plan and EMP.
Minor Minerals	for project or activity of mining of minor minerals in case of cluster of mining lease areas possessing the cumulative mining lease area of	Form -I, PFR, DSR and Approved Mine Plan and EIA and EMP; Public Hearing.	for project or activity of mining of minor minerals in case of cluster of mining lease areas possessing the cumulative mining lease area	Comprehensive Form -1M, PFR, DSR and Approved Mine Plan and One EMP for all leases in the Cluster.

	<p>extent of 5 ha or more, as defined in EIA Notifications, S.O.141 (E), 15.01.2016 & S.O. 2269(E), 01.07.2016.</p>		<p>of extent of less than or upto 5 ha, as defined in EIA Notifications, S.O.141 (E), 15.01.2016 & S.O. 2269(E), 01.07.2016.</p>	
Major Minerals	<p>for project or activity of mining of minor minerals (Individual Mine Lease) (OR) in case of cluster of mining lease areas possessing the cumulative mining lease area of extent possessing the mining lease area of extent of ≤ 250 ha of mining lease area in respect of non-coal mine lease; Hence, vide amended Notifications S.O. 1886(E) dated 20.04.2022, it shall be dealt by the</p>	<p>Form -I, PFR, DSR and Approved Mine Plan and EIA and EMP; Public Hearing.</p>	<p>It is well-known that there is no need of prior environmental clearance for the mining projects of major minerals of lease area less than 5 ha as per EIA Notification, 2006 either from the State Government or the Central Government till 15.01.2016.</p> <p>However, the EIA Notification S.O. 141, dated. 15.01.2016 with subsequent amendments has defined the scope for project or activity of mining of minor minerals only to be considered as Category 'B2' with area of extent less than 5 Ha. Further, the Mining of Major Minerals are treated under the Category of 'B1' as there is</p>	

	<p><i>SEIAA/SEAC under the 'Category B':</i></p> <p><i>However, the EAC (MoEF & CC) will process the proposals of (i) >250 ha mining lease area in respect of major mineral mining lease other than coal; (ii) >500 ha of mining lease area in respect of coal mine lease.</i></p> <p><i>(iii) Asbestos mining irrespective of mining area, under the 'Category A'.</i></p>		<p><i>no Notification/OM/Circular issued by the Competent Authority describing the Category of Major Mineral possessing mining lease area of less than 5 Ha as 'B2'.</i></p>
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Recently, the MoEF & CC vide its Notification S.O. 2163 (E) , dated. 09.05.2022 clearly states that

"....Whereas, the Central Government in the erstwhile Ministry of Environment and Forests, in exercise of its powers under sub-section (1) and clause (v) of sub-section (2) of section (3) of the Environment (Protection) Act, 1986 has published the Environment Impact Assessment Notification, 2006 (hereinafter referred to as the EIA Notification, 2006) vide number S.O.1533 (E), dated the 14th September, 2006, for mandating prior Environmental Clearance (EC) for certain category of projects; And whereas, for the grant of prior EC, public hearing is mandatory and it is an integral part of the EC process,


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unless specifically exempted for certain activities as mentioned in the EIA Notification 2006, as amended from time to time.....”

Therefore, after the long deliberations and discussions in the 416th SEAC Meeting, the SEAC has observed that the Public Hearing is mandatory for all mining projects of major mineral category irrespective of the area for ensuring the scientific & systematic mining and the conservation of major minerals, as per the provisions of the EIA Notification, 2006 as amended from time to time. Further, it is also noted that Public Hearing is a pre-requisite for the following mining projects: (i) If the proposal is a new one. (ii) If a major mineral project is being submitted for environmental clearance to MOEF for the first time for proposed production and or lease area.

Based on the impact of the above EIA Notifications and legal implications observed by the Hon'ble NGT Judgements, the SEAC has decided to direct the PP to conduct the Public Hearing (PH) as per the procedure prescribed in EIA Notification, 2006 and submit the minutes of the PH with action plan, for considering the application/proposal towards the grant of EC.

After the receipt of the minutes of the Public Hearing submitted by the PP along with a valid Mining Lease, and approved Mining Plan/Scheme of Mining including the PMCP/FMCP for the proposed mining operations, the SEAC may deliberate the future course of action.

Agenda No: 416 – TA – 04


(File No: 6524/2018)

Existing Limestone mine lease over an extent of 1.92.6 Ha at S.F.No.1100/6A, 1100/7, 1100/8, 1102/1 & 1102/2B of Thenmalai Village, Sivagiri Taluk, Tirunelveli District, Tamil Nadu by M/s. Janathacem Industries Limited – for Environmental Clearance under violation category. (SIA/TN/MIN/418136/2023, Dt.13/02/2023)

The proposal was placed in this 396th SEAC meeting held on 28.07.2023. The details of the project furnished by the proponent are available on the web portal (parivesh.nic.in).

The project proponent gave a detailed presentation. The SEAC noted the following:

1. The Project Proponent, M/s. JanathaCem Industries Limited has applied for Environmental Clearance under violation category for the Existing Limestone


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- mine lease over an extent of 1.92.6 Ha at S.F.No.1100/6A, 1100/7, 1100/8, 1102/1 & 1102/2B of Thenmalai Village, Sivagiri Taluk, Tirunelveli District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
 3. ToR issued under violation category vide Lr No. SEIAA-TN/F.No.6524/TOR-378/2018, Dated: 16.05.2018.
 4. As per the Hon'ble High Court of Madras order dated 13.10.2017 in W.P.No.11189 of 2017, amendment in the ToR was issued vide Letter No. SEIAA-TN/F – 6524/SEAC- CXVIII/TOR- 378(A)/2018 Dt. 30.07.2018.
 5. Extension of validity of ToR issued vide Lr. No. SEIAA-TN/F.No.6524/ToR-378/2018/A/ dated:30.10.2021 and Lr. No. SEIAA-TN/F.No.6524/SEAC/TOR-378/2018/Extn, dated: 26.09.2022
 6. Earlier, the proposal was placed for appraisal in the 369th SEAC meeting held on 20.04.2023. Based on the presentation made and documents furnished by the project proponent, the SEAC decided to constitute a sub-committee to make on-site inspection to assess the present status of the proposed project, environmental settings and to assess ecological damage assessment whether it is being carried out in accordance with CPCB Guidelines, remediation plan, natural resource augmentation and community resource augmentation.


After the receipt of the additional details from the proponent and the evaluation report by the Sub-committee, the SEAC will deliberate on the issue of Environmental Clearance under violation category. SEAC also decided to request SEIAA-TN to initiate action under Sec. 19 of the Environment (Protection) Act, to be taken for violation cases, in accordance with law.

The Sub Committee report was placed in 416th SEAC meeting held on 13.10.2023. The observations made in the field and recommendation derived on the basis of the field visit are as below:

Chronology

Sl. No	Sequence of events	Date
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1	Date of TOR Application with Online Proposal No. SIA/TN/MIN/65537/2017 (within Window Period) – Considered under Violation Category	07.10.2017
2	As per Gazette Notification S.O. 3977 (E) Dated 14.08.2018 Category B Project redirected to SEIAA - Date of TOR Application with Online Proposal No. SIA/TN/MIN/23118/2018	31.03.2018
3	TOR Meeting – 109 th held on	25.04.2018
4	Awarded TOR: SEIAA-TN/F.No.6524/TOR-378/2018	16.05.2018
5	Applied for ToR Extension SIA/TN/MIN/267768/2022	13.04.2022
6	Extension ToR Granted with PH: SEIAA-TN/F.No.6524/TOR-378/2018/Extn Dated: 26.09.2022	26.09.2022
7	EC Application vide Online Proposal No. SIA/TN/MIN/418136/2023	19.04.2023
8	Deliberation in 369 th Meeting held on	20.04.2023
9	Recommended for Site Visit by Sub Committee	20.04.2023

Salient Features of the Project

Particulars	Details
Name of Project	Thenmalai Limestone Mines
Project Proponent	M/s. Janatha Cem Industries Limited
Location of mine	SF No. 1100/6A, 1100/7, 1100/8, 1102/1 & 1102/2B Thenmalai village, Sivagiri Taluk, Tirunelveli district
Category of Project	B1
Proposed Capacity per Annum	21,341 TPA ROM (Peak production)
Mine Lease Area	1.92.6 Ha
Life of Mine	6.0 years
Total Working Day/Year	264 days
Total Number of workers employed	17

Particulars	Details
Total Water Requirement & Source	2.5 KLD Source collected rain water & from water vendors
Latitude & Longitude	09° 19'39.78" N to 09° 19'49.60"N . 77° 32'22.37"E to 77° 32'33.47"E
Topo Sheet number	58 C/11
Eco Sensitivity	Srivilliputhur Grizzled Squirrel wildlife Sanctuary, Notified Eco Sensitive Area (ESA) vide S.O. 4500(E) dated 13.12.2019, is located at a distance of 14.5 km in North west direction from the Lease. The shortest Eco Sensitive Zone (ESZ) of Srivilliputhur Grizzled Squirrel wildlife Sanctuary is 13.5 km in North west direction. There are no other Eco Sensitive Areas like National Parks, Wildlife Sanctuaries, Biosphere Reserves, Wildlife Corridors, Ramsar Sites, Tiger/Elephant Reserves, Reserved Forests, etc. (existing as well as proposed) within 10 km from the Lease.
Type of Land	Patta Land
Method of Mining	Non – Conventional Opencast Method of Mining using Jackhammer drilling, Excavator for mining operation
Bench parameters	Height 4 meters & Width 6 m
Depth of Mining	21 m BGL
Dimension of the Pit -Ultimate	Pit – I = 235m (L) X 43m (W) X 27m (D) Pit – II = 74m (L) X 22m (W) X 3m (D) Pit – III = 72m (L) X 36m (W) X 15m (D)
Nearest railway station	Rajapalayam – 14 km - (North)
Nearest Highway	NH 208 – Kollam – Thirumangalam – 11.0km -West
Nearest air port	Madurai Airport at 82.0 km in North east


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Particulars	Details
Seismic zone	Zone-II
Cost of the Project	Rs.19.28 Lakhs

Mining Lease Details

Sl. No.	ML Grant	ML Grant Reference	Validity		Remarks
			From	To	
1	Initial Grant	G.O.MS.No. 78 Industries (D.11)Department Dated 09.02.1989	27.04.1989	26.04.2009	20 Years
2	First Renewal	Applied mine lease application to state government on 29.12.2008	-	-	20 Years
3	MMDR (Amend) Act, 2015	-	26.03.2015	26.04.2039	

Mining Plan Details

Sl. No.	Mining Plan/Scheme	Plan Period	Approval vide IBM Letter Reference
1	1 st Scheme of Mining	2004-05 to 2008-09	TN/TNL/LST/MS-322-MDS dated 29.06.2005
2	2 nd Scheme of Mining	2015-16 to 2019 -20	TN/TNL/LST/MS-1279.MDS, dated 18.12.2015
3	Modified Mining plan	2017-18 to 2019-20	TN/TNL/LST/MP-2024.MDS, dated: 07.06.2017
4	Review of mining plan	2020-21 to 2024-25	TN/TNL/LST/ROMP-1628.MDS, dated: 30.12.2020


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SEAC -TN

103


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SEAC- TN

Details of Mining


Sl. No.	Particulars	Details
1	Method of mining	Non- Conventional Opencast Method of Mining (using jack hammer drilling, Controlled blasting and using Excavator)
2	Geological reserve	4,18,677 Tonnes of ROM
3	Mineable reserve available- As on 07.08.2019	1,12,823 Tonnes of ROM Recovery was 100% (80% high grade+20% low grade) limestone
4	Proposed production (Peak production)	21,341 tonnes ROM Recovery was 100% (80% high grade+20% low grade) limestone
5	Elevation range of the mine site	Top RL 134 m
6	Bench height	4.0m
7	Bench width	6 m
8	Bench slope	45° to 60° to vertical
9	Proposed Depth of mining	21 m BGL
10	Life of mine	6.0 years

Past Production Details

Year	Proposal (Tonnes)			Actual (Tonnes)		
	Rom (Ts)	High grade Limestone @ 80% (Ts)	Low grade @ 20% (Ts)	Rom (Ts)	High Grade Limestone @ 80% (Ts)	Low grade Limestone @ 20% (Ts)
2017-18	24118	19294	4824	The mines stopped the mining operations from January 2017 as the lessee did not obtain the Environment Clearance from the Competent Authority. Copy of Notice of Temporary Discontinuance is enclosed as Annexure No.XIV. Hence the Actual Production was Nil.		
2018-19	19490	15592	3898			
2019-20	18000	14400	3600			
Total	61607	49286	12321			

Proposed Production Details

As per the Review of Mining Plan approved by Indian Bureau of Mines vide Letter No. Lr.No. TN/TNL/LST/ROMP-1628.MDS, dated: 30.12.2020, the proposed production is as follows.


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Summary of yearwise [2020-21 to 2024-25]

Year	ROM(Ts)	High grade Limestone @ 80% (Ts)	Low Grade Limestone@ 20% (Ts)	Top Soil (Ts)	Side burden (Ts)	Ore waste ratio
2020-21	19053	15242	3811	3948	16723	1:0.88
2021-22	18366	14693	3673	3240	18034	1:0.98
2022-23	17846	14277	3569	2304	13926	1:0.78
2023-24	18671	14936	3734	-	7259	1:0.39
2024-25	21341	17073	4268	-	3598	1:0.17
Total	95277	76222	19055	9492	59540	1:0.62

OBSERVATIONS OF THE SEAC SUB-COMMITTEE DURING THE PROJECT SITE INSPECTION

1. Sub Committee has visited Thenmalai Limestone Mine (F.No. 6524) during the Inspection to have over all mining scenario.
2. Lease area is extent of 1.92.6 Ha in SF No. 1100/6A, 1100/7, 1100/8, 1102/1 & 1102/2B and is operated with two leases previously and third lease is obtained which is valid up to 26.04.2039 (As per Amended MMDR Act 2015).
3. Lease area is compeltely wire fenced in all side.
4. Nearest settlements/habitations are observed in 320 m along the southeast direction.
5. Nearest water bodies is 100m in the north and pond at 5 km northwest.
6. There was no mining activities in the lease area pit.
7. Rain water accumulated in the Pit and atleast 5 meters are covered in water, as noticed.
8. During Violation Period, Non – Conventional Opencast Method of Mining using Jackhammer drilling, Excavator for mining operation were carried out in the Lease.
9. There was no Top Soil and Over Burden generation during the Period and thus no waste dump in the Lease.
10. During violation period (from 15.01.2016 to 10.01.2017) around 16,500 Tonnes of Limestones has been mined and transported.
11. Penalty Amount of Rs. 74,14,500 (Seventy four lakhs fourteen thousand and five hundred only) has been imposed as per the District collector Letter No 1/29423/2019-19 Dated 20.08.2019 which has not been paid by the Proponent. The mine owners had appealed in the Madurai Bench of Madras High court W.P.

No. 24463/2018 for the violation cases to revised the penalty cost and is pending with Madurai bench of High court.

12. No Ground Water-table intersection as noticed in the existing benches of the lease area.
13. Statuary documents like Patta, FMB sketch, Village Map, Mining Lease G.O. copy, River of mining plan approval letter, HEMM Permission letter, Permission letter to Amalgamation, penalty letter from the District Collector are verified.
14. There are six mining lease got amalgamation total extent of the mining leases (6 leases) 10.96.0 Ha.
15. As per the committee recommendations, 500 trees per hectare and total number of trees would be around 6,600 trees will be planted by the proponent. Considering the 80% survival 5,480 trees are expected to grow.
16. Green Belt, common in the lease area, was developed along the periphery of Mine Pits including in Safety Barriers.
17. Garland Drains are not provided along the periphery.
18. Green belt developed along the eastern side boundaries are infested with *Procopius juliflora* which are to be eradicated and additional green belt shall be developed.
19. Overall, the EIA report has predicted that the project will comply with all environment standards and legislation after commencement of the project and operational stage mitigation measures are implemented.
20. Re opening of this mining will meet the raw material requirement for the CAPTIVE cement plant
21. Direct and Indirect Employment opportunities will create due to this project
22. Sustainable and modern mining leads us to see positive impact of mining operation and providing employment for nearly 90 people directly.
23. The capital EMP cost for the proposed mining activity is Rs. 25,18,583/- and recurring EMP cost is Rs. 7,60,083/-.
24. The CSR activities will be carried to near Government school with a cost of Rs. 5.00 lakhs.
25. Project Cost is Rs.19.28 Lakhs.

PENALTY FOR VIOLATION

M/s. Janathacem Industries Limited has received Demand Notice from the District Collector, Tirunelveli for 100% cost of Mineral value of Limestone quantity of 16,500 Tonnes produced without EC vide Rc. No. M1/29423/2019-21 dated 20.08.2019 for Rs.74,14,500/-. M/s. Janathacem Industries Limited has not remitted the amount to Department of Geology and Mining.

CONCLUSIONS & RECOMMENDATIONS:

As the Proposal falls in Low Level Ecological Damage and EMP measures were in place (collectively for Thenmalai Limestone Mine) during the Violation Period, the Sub-Committee is of the opinion that the Maximum Environmental Compensation of Rs.30,00,000/ as per the CPCB Guidelines shall be levied. Accordingly, the maximum Environmental Compensation for will be Rs.30,00,000/- which has to be compensated as follows :

Sl. No.	Activity Proposed	Total (Rs.)
1	Cost of Ecological Damage Remediation Plan	12,00,000
2	Natural Resource Augmentation Plan	9,00,000
3	Community Resource Augmentation Plan	9,00,000
Grand Total		30,00,000

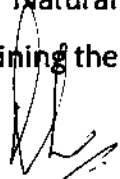
STATUTORY PROCEDURES TO BE FOLLOWED:

1. The Bank Guarantee for Rs. 30,00,000/- has to be given to TNPCB for successful implementation of the Schemes in 5 years period. The Bank Guarantee will be released after successful implementation of the Remediation Plan and Natural and Community Resource Augmentation Plan.
2. Credible Action under Section 19 of the E(P) Act shall also be complied for awarding the EC.

SEAC RECOMMENDATIONS

Even though the PP had submitted the Environmental Compension indicating the contribution towards to Ecological Damage Remediation Plan, Natural Resouse Augmentation and Community Resource Augmentation Plan for obtaining the EC under


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violation category, the SEAC has observed that the PP had not carried out the Public Hearing for the above proposal involving mining of major mineral, i.e., Limestone as all the major minerals are considered to be B1 Category vide MoEF OM 2013 {No. J-13012/12/2013-IA-II (I)} - Categorization of Category 'B' projects/activities into Category 'B1' & 'B2', 24th December, 2013 which spells out

"The guidelines for categorization of Category 'B' projects/activities into Category 'B1' & 'B2' are applicable only to those projects/activities mentioned above. All the other Category 'B' projects/activities listed under the Schedule of EIA Notification, 2006 and its amendments shall be considered as Category 'B1' projects and appraised as per the procedure prescribed in the EIA Notification"


Further, it is pertinent to observe that the EIA Notification dated 14.09.2006 has been amended vide Notifications dated 15.01.2016, 20.01.2016, 01.07.2016 and later, the EIA Notification 2018, dated.14.08.2018 which comments on the 'Mining of Minerals' with the 'Category with Threshold limit' of "<50 ha \geq 5 ha of mining lease area" specified as 'B' Category in the EIA Notification, 2006 is replaced with "<100 ha of mining lease area in respect of non-coal mine lease". Here, the mining of mineral was classified into B1 & B2 categories stipulating the conditions as given below:

- (i) for project or activity of mining of minor minerals of Category 'B2' (up to 25 ha of mining lease area);
- (ii) for project or activity of mining of minor minerals of Category 'B1' in case of cluster of mining lease area; and

The NGT Order (O.A. No. 186/2016) titled as Satendra Pandey vs. MoEF&CC & Anr., vide order dated 13.09.2018 and relevant part of the order reads as under:-

"21. Dispensing with the requirement of Public Hearing which forms a part of the Public Consultation under Stage-III of the Environmental Clearance process under EIA Notification, 2006 for areas measuring 0 to 25 ha for individual mine areas and in cluster situation where public hearing has been provided, has resulted in gross dilution of EIA Notification dated 14th September, 2006...."

Accordingly, the MoEF & CC, vide its OM F.No. L-11011/175/2018-IA0II (M) dated. 12.12.2018, has inter-alia directed as follows:


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"....(i) Providing for EIA, EMP and therefore, Public Consultation for all areas from 5 to 25 ha falling member Category B-2 at par with Category B-1 by SEAC/SEIAA as well as for cluster situation wherever it is not provided:....

Now, it has been made clear that the Public Hearing is required to be conducted for the *areas measuring 5 to 25 ha for individual mine areas and also in cluster situation even in case of minor minerals.*

Hence, it has been established that the procedures stipulated for the appraisal of the projects involving the Mining of Minerals for obtaining the prior Environmental Clearance (or) Environmental Clearance under EIA Notification 2006 in consonance with EP Act 1986, are as follows:


Type of Mineral	B1		B2	
	Applicability	Obligatory	Applicability	Obligatory
Minor Minerals	<i>for project or activity of mining of minor minerals (Individual Mine Lease) possessing the mining lease area of extent of 5 ha or more.</i>	<i>Form -I, PFR, DSR and Approved Mine Plan and EIA and EMP; Public Hearing.</i>	<i>for project or activity of mining of minor minerals possessing the mining lease area of extent less than 5 ha.</i>	<i>Comprehensive Form -IM, PFR, DSR and Approved Mine Plan and EMP.</i>
Minor Minerals	<i>for project or activity of mining of minor minerals in case of cluster of mining lease areas possessing the cumulative mining lease area of extent of 5 ha or</i>	<i>Form -I, PFR, DSR and Approved Mine Plan and EIA and EMP; Public Hearing.</i>	<i>for project or activity of mining of minor minerals in case of cluster of mining lease areas possessing the cumulative mining lease area of extent of less</i>	<i>Comprehensive Form -IM, PFR, DSR and Approved Mine Plan and One EMP for all leases in the Cluster.</i>

	more, as defined in EIA Notifications, S.O.141 (E), 15.01.2016 & S.O. 2269(E), 01.07.2016.		than or upto 5 ha, as defined in EIA Notifications, S.O.141 (E), 15.01.2016 & S.O. 2269(E), 01.07.2016.	
Major Minerals	for project or activity of mining of minor minerals (Individual Mine Lease) (OR) in case of cluster of mining lease areas possessing the cumulative mining lease area of extent ≤ 250 ha and EIA and of mining lease area in respect of non-Public coal mine lease; Hence, vide amended Notifications S.O. 1886(E) dated 20.04.2022, it shall be dealt by the SEIAA/SEAC under the 'Category B';	Form -I, PFR, DSR and Approved Mine Plan and EMP; Public Hearing.	It is well-known that there is no need of prior environmental clearance for the mining projects of major minerals of lease area less than 5 ha as per EIA Notification, 2006 either from the State Government or the Central Government till 15.01.2016. However, the EIA Notification S.O. 141, dated. 15.01.2016 with subsequent amendments has defined the scope for project or activity of mining of minor minerals only to be considered as Category 'B2' with area of extent less than 5 Ha. Further, the Mining of Major Minerals are treated under the Category of 'B1' as there is no Notification/OM/Circular issued	

	<p>However, the EAC (MoEF & CC) will process the proposals of (i) >250 ha mining lease area in respect of major mineral mining lease other than coal; (ii) >500 ha of mining lease area in respect of coal mine lease.</p> <p>(iii) Asbestos mining irrespective of mining area, under the 'Category A'.</p>		<p>by the Competent Authority describing the Category of Major Mineral possessing mining lease area of less than 5 Ha as 'B2'.</p>
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Recently, the MoEF & CC vide its Notification S.O. 2163 (E) , dated. 09.05.2022 clearly states that

"...Whereas, the Central Government in the erstwhile Ministry of Environment and Forests, in exercise of its powers under sub-section (1) and clause (v) of sub-section (2) of section (3) of the Environment (Protection) Act, 1986 has published the Environment Impact Assessment Notification, 2006 (hereinafter referred to as the EIA Notification, 2006) vide number S.O.1533 (E), dated the 14th September, 2006, for mandating prior Environmental Clearance (EC) for certain category of projects; And whereas, for the grant of prior EC, public hearing is mandatory and it is an integral part of the EC process, unless specifically exempted for certain activities as mentioned in the EIA Notification 2006, as amended from time to time....."


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Therefore, after the long deliberations and discussions in the 416th SEAC Meeting, the SEAC has observed that the Public Hearing is mandatory for all mining projects of major mineral category irrespective of the area for ensuring the scientific & systematic mining and the conservation of major minerals, as per the provisions of the EIA Notification, 2006 as amended from time to time. Further, it is also noted that Public Hearing is a pre-requisite for the following mining projects: (i) If the proposal is a new one. (ii) If a major mineral project is being submitted for environmental clearance to MOEF for the first time for proposed production and or lease area.

Based on the impact of the above EIA Notifications and legal implications observed by the Hon'ble NGT Judgements, the SEAC has decided to direct the PP to conduct the Public Hearing (PH) as per the procedure prescribed in EIA Notification, 2006 and submit the minutes of the PH with action plan, for considering the application/proposal towards the grant of EC.

After the receipt of the minutes of the Public Hearing submitted by the PP along with a valid Mining Lease, and approved Mining Plan/Scheme of Mining including the PMCP/FMCP for the proposed mining operations, the SEAC may deliberate the future course of action.

Agenda No: 416- TA – 05

(File No: 6525/2018)

Existing Limestone Quarry over an Extent of 2.63.0Ha located at S.F.No.1100/9, 1101/8,1101/9,1101/10,1102/5C,1103/3A,3B(P)&1104, Thenmalai Village,Sivagiri Taluk, Tirunelveli District, Tamil Nadu by M/s. JanathaCem Industries Limited represented by Thiru. T. Venkatarajgopalan – For Environmental Clearance under Violation Category. (SIA/TN/MIN/418775/2023, Dated. 17.02.2023)

Earlier, this proposal was placed in this 369th SEAC Meeting held on 20.04.2023. The details of the project furnished by the proponent are available on the PARIVESH web portal (parivesh.nic.in). The Project Proponent gave a detailed presentation.

The SEAC noted the following:

1. The Proponent M/s. JanathaCem Industries Limited has applied for Environmental Clearance under Violation Category for the Existing Limestone Quarry over an Extent of 2.63.0Ha located at S.F.No.1100/9,


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1101/8,1101/9,1101/10,1102/5C,1103/3A,3B(P)&1104, Thenmalai Village, Sivagiri Taluk, Tirunelveli District, Tamil Nadu.

2. The project/activity is covered under Category "B" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006, as amended.
3. ToR issued under violation by SEIAA-TN vide Lr.No. SEIAA-TN/F.No.6525/ToR-378/2018/ dated 16.05.2018.
4. ToR Amendment issued vide Lr.No. SEIAA-TN/F.No.6525/SEAC-CXVIII/TOR-378(A)/2018 dated: 30.07.2018.
5. ToR Extension under violation issued vide SEIAA. Lr. No. SEIAA-TN/F.No. 6525/TOR- 378/A/ dated:29.10.2021.
6. ToR Extension under violation Lr. No. SEIAA-TN/F.No.6525/ToR-378/Extn. /2018/Dated:26.09.2022.
7. Public Hearing - As per MoEF & CC Notification Dt: 01.07.2016 & Office Memorandum – F.No.22-28/2020.IA.III Dated: 12.11.2020; Point No.5.
8. As per MMDR Amendment Act 2015 lease period is granted 16.03.1984 valid upto 01.07.2034.
9. Review of mining plan approved by IBM TN/TNL/LST/ ROMP -1626 MDS, Dt:30.12.2020 for the period 2020 -2021 to 2024 -2025.
10. Production 1,15,138 Tonnes of ROM (High Grade Limestone 80% - 92,111 Tonnes & Low-Grade Limestone 20% - 23,028 Tonnes) & 12294 Tonnes of Topsoil & 51522 Tonnes of Side Burden and depth of mining 25m.

Based on the presentation made and documents furnished by the project proponent, the SEAC decided to constitute a SUB COMMITTEE to make an on-site inspection to assess the present status of the project site and environmental settings as the proposal falls under violation category and submit the report along with the recommendations to the Committee.

Further the Committee called for the following additional details:

1. A letter from the Project Proponent justifying that the project activity is covered under Category "B2" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006, as amended.
2. Valid mine plan approved by the competent authority for the proposed period


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of quarrying.

3. The PP shall furnish the copy of receipt of the penalty levied by the Dept of Geology and Mining for the exploitation of mineral without prior EC.

Meanwhile, the SEAC decided to constitute a sub-committee to make on-site inspection to assess the present status of the proposed project, environmental settings and to assess ecological damage assessment whether it is being carried out in accordance with CPCB Guidelines, remediation plan, natural resource augmentation and community resource augmentation.

After the receipt of the additional details from the proponent and the evaluation report by the Sub-committee, the SEAC will deliberate on the issue of Environmental Clearance under violation category. SEAC also decided to request SEIAA-TN to initiate action under Sec. 19 of the Environment (Protection) Act, to be taken for violation cases, in accordance with law.

Subsequently, the proposal was placed in the 616th Authority meeting held on 10.05.2023. The Authority decided to request the Member Secretary, SEIAA to communicate the SEAC minutes to the project proponent held on 20.04.2023.

The Sub Committee report was placed in 416th SEAC meeting held on 13.10.2023. The observations made in the field and recommendation derived on the basis of the field visit are as below:

Chronology

Sl. No	Sequence of events	Date
1	Date of TOR Application with Online Proposal No. SIA/TN/MIN/27508/2018 (within Window Period) – Considered under Violation Category	18.06.2017
2	As per Gazette Notification S.O. 3977 (E) Dated 14.08.2018 Category B Project redirected to SEIAA - Date of TOR Application with Online Proposal No. SIA/TN/MIN/23113/2018	31.03.2018
3	TOR Meeting – 109 th held on	25.04.2018
4	Awarded TOR: SEIAA-TN/F.No.6525/TOR-378/2018	16.05.2018


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CHAIRMAN
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5	Applied for ToR Extension SIA/TN/MIN/267768/2022	13.04.2022
6	Extension ToR Granted: SEIAA-TN/F.No.6525/TOR-378/Extn/2018 Dated: 26.09.2022	26.09.2022
7	EC Application vide Online Proposal No. SIA/TN/MIN/418775/2023	19.04.2023
8	Deliberation in 369 th Meeting held on	20.04.2023
9	Recommended for Site Visit by Sub Committee	20.04.2023

Salient Features of the Project

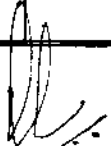
Particulars	Details
Name of Project	Thenmalai Limestone Mines
Project Proponent	M/s. Janatha Cem Industries Limited
Location of mine	SF No. 1100/9, 1101/8, 9, 10, 1102/5C, 1103/3A, 3B (P) & 1104 Thenmalai village, Sivagiri Taluk, Tirunelveli district
Category of Project	B1
Proposed Capacity per Annum	23,847 TPA ROM (Peak production)
Mine Lease Area	2.63.0 Ha
Life of Mine	6.5 years
Total Working Day/Year	300 days
Total Number of workers employed	17
Total Water Requirement & Source	2.5 KLD Source collected rain water & from water vendors
Latitude & Longitude	09° 19' 41.75"N to 09° 19' 29.02"N , 77° 32' 34.68"E to 77° 32' 22.48"E
Topo Sheet number	58 G/11
Eco Sensitivity	Srivilliputhur Grizzled Squirrel wildlife Sanctuary, Notified Eco Sensitive Area (ESA) vide S.O. 4500(E) dated 13.12.2019, is located at a distance of 14.5 km

Particulars	Details
	in North west direction from the Lease. The shortest Eco Sensitive Zone (ESZ) of Srivilliputhur Grizzled Squirrel wildlife Sanctuary is 13.5 km in North west direction. There are no other Eco Sensitive Areas like National Parks, Wildlife Sanctuaries, Biosphere Reserves, Wildlife Corridors, Ramsar Sites, Tiger/Elephant Reserves, Reserved Forests, etc. (existing as well as proposed) within 10 km from the Lease.
Type of Land	Patta Land
Method of Mining	Non – Conventional Opencast Method of Mining using Jackhammer drilling, Excavator for mining operation
Bench parameters	Height 4 meters & Width 6 m
Depth of Mining	41 m BGL
Dimension of the Pit -Ultimate	Pit – I = 22m (L) X 102m (W) X 25m (D) Pit – II = 73m (L) X 70m (W) X 25m (D) Pit – III = 99m (L) X 32m (W) X 41m (D)
Nearest railway station	Rajapalayam – 14 km - (North)
Nearest Highway	NH 208 – Kollam – Thirumangalam – 11.0km -West
Nearest air port	Madurai Airport at 82.0 km in North east
Seismic zone	Zone-II
Cost of the Project	Rs.20.69 Lakhs

Mining Lease Details

Sl. No.	ML Grant	ML Grant Reference	Validity		Remarks
			From	To	
1	Initial Grant	G.O.No.366 Industries	02.07.1984	01.07.1987	3 Years


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		Department Dated 16.03.1984			
2	First Renewal	G.O.MS.No. 77 Industries (D.II) Department Dated 02.07.1987	02.07.1987	01.07.1997	10 Years
3	Second Renewal	Applied mine lease application to state government on 26.06.1996	-	-	20 Years
4	MMDR (Amend) Act, 2015	-	26.03.2015	01.07.2034	


Mining Plan Details

Sl. No.	Mining Plan/Scheme	Plan Period	Approval vide IBM Letter Reference
1	Scheme of Mining	2015-16 to 2019 -20	TN/TNL/LST/MS-1282.MDS, dated 21.12.2015
2	Modified Mining plan	2017-18 to 2019-20	TN/TNL/LST/MP-2027.MDS, dated: 07.06.2017
3	Review of mining plan	2020-21 to 2024-25	TN/TNL/LST/ROMP-1626.MDS, dated: 30.12.2020

Details of Mining

Sl. No.	Particulars	Details
1	Method of mining	Non- Conventional Opencast Method of Mining (using jack hammer drilling, Controlled blasting and using Excavator)
2	Geological reserve	4,47,023 Tonnes of ROM
3	Mineable reserve available-	1,43,395 Tonnes of ROM Recovery was 100% (80% high grade+20% low


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	As on 07.08.2019	grade) limestone
4	Proposed production (Peak production)	23,847 tonnes ROM Recovery was 100% (80% high grade+20% low grade) limestone
5	Elevation range of the mine site	Top RL 134 m
6	Bench height	4.0m
7	Bench width	6 m
8	Bench slope	45° to 60° to vertical
9	Proposed Depth of mining	25m BGL
10	Life of mine	6.5 years

Past Production Details

Year	Proposal (Tonnes)			Actual (Tonnes)		
	Rom (Ts)	High grade Limestone @ 80% (Ts)	Low grade @ 20% (Ts)	Rom (Ts)	High Grade Limestone @ 80% (Ts)	Low grade Limestone @ 20% (Ts)
2017-18	14071	11257	2814	The mines stopped the mining operations from January 2017 as the lessee did not obtain the Environment Clearance from the Competent Authority. Copy of Notice of Temporary Discontinuance is enclosed as Annexure No.XIV. Hence the Actual Production was Nil.		
2018-19	13634	10908	2727			
2019-20	18564	14851	3713			
Total	46270	37016	9254			

Proposed Production Details

As per the Review of Mining Plan approved by Indian Bureau of Mines vide Letter No. Lr.No. TN/TNL/LST/ROMP-1626.MDS, dated: 30.12.2020, the proposed production is as follows.

Summary of yearwise [2020-21 to 2024-25]

Year	ROM(Ts)	High grade Limestone @ 80% (Ts)	Low Grade Limestone@20% (Ts)	Top Soil (Ts)	Side burden (Ts)	Ore waste ratio
2020-21	22110	17688	4422	8198	33249	1:1.50
2021-22	23473	18778	4695	-	3162	1:0.13
2022-23	23847	19078	4769	2160	5460	1:0.23
2023-24	22610	18088	4522	-	5314	1:0.23
2024-25	23098	18479	4620	1936	4337	1:0.19
Total	115138	92111	23028	12294	51522	1:0.45


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Ecological Damage Assessment

Other than operating the Mine without required EC after 15.01.2016, and one more violation observed that the mine was operated without CTO there. M/s. Janathacem Industries Limited received the Demand Notice from the District Collector, Tirunelveli for 100% cost of Mineral value of Limestone quantity produced i.e.38,550 Tonnes without EC vide Rc. No. M1/29423/2019-17, Dated 20.08.2019 for Rs.1,84,28,100/-. M/s. Janathacem Industries Limited has Not remitted the amount to Department of Geology and Mining.

OBSERVATIONS OF THE SEAC SUB-COMMITTEE DURING THE PROJECT SITE INSPECTION

1. Sub Committee has visited Thenmalai Limestone Mine (F.No. 6525) during the Inspection to have over all mining scenario.
2. Lease area is extent of 2.63.0 Ha in SF No. 1100/9, 1101/8, 9, 10, 1102/5C, 1103/3A, 3B (P) & 1104 and is operated with two leases previously and third lease is obtained which is valid up to 01.07.2034 (As per Amended MMDR Act 2015).
3. Lease area is compeltely wire fenced in all side.
4. Nearest settlements/habitations are observed in 320 m along the southeast direction.
5. Nearest water bodies is 100m in the north and pond at 5 km northwest.
6. There was no mining activities in the lease area pit.
7. Rain water accumulated in the Pit and atleast 5 meters are covered in water, as noticed.
8. During Violation Period, Non – Conventional Opencast Method of Mining using Jackhammer drilling, Excavator for mining operation were carried out in the Lease.
9. There was no Top Soil and Over Burden generation during the Period and thus no waste dump in the Lease.
10. During violation period (from 15.01.2016 to 10.01.2017) around 38,550 Tonnes of Limestones has been mined and transported.
11. Penalty Amount of Rs 1,84,28,100/- (One crores Eighty four lakhs twenty eight

thousand hundred) has been imposed as per the District collector Letter No 1/29423/2019-19 Dated 20.08.2019 which has not been paid by the Proponent. The mine owners had appealed in the Madurai Bench of Madras High court W.P. No. 24463/2018 for the violation cases to revised the penalty cost and is pending with Madurai bench of High court.

12. No Ground Water-table intersection as noticed in the existing benches of the lease area.
13. Statuary documents like Patta, FMB sketch, Village Map, Mining Lease G.O. copy, River of mining plan approval letter, HEMM Permission letter, Permission letter to Amalgamation, penalty letter from the District Collector are verified.
14. There are six mining lease got amalgamation total extent of the mining leases (6 leases) 10.96.0 Ha.
15. As per the committee recommendations, 500 trees per hectare and total number of trees would be around 6,600 trees will be planted by the proponent. Considering the 80% survival 5,480 trees are expected to grow.
16. Green Belt, common in the lease area, was developed along the periphery of Mine Pits including in Safety Barriers.
17. Garland Drains are not provided along the periphery.
18. Green belt developed along the eastern side boundaries are infested with *Procopius juliflora* which are to be eradicated and additional green belt shall be developed.
19. Overall, the EIA report has predicted that the project will comply with all environment standards and legislation after commencement of the project and operational stage mitigation measures are implemented.
20. Re opening of this mining will meet the raw material requirement for the CAPTIVE cement plant
21. Direct and Indirect Employment opportunities will create due to this project
22. Sustainable and modern mining leads us to see positive impact of mining operation and providing employment for nearly 90 people directly.
23. The capital EMP cost for the proposed mining activity is Rs. 25,18,583/- and recurring EMP cost is Rs. 7,60,083/-.


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24. The CSR activities will be carried to near Government school with a cost of Rs. 5.00 lakhs.

25. Project Cost is Rs.20.69 Lakhs.

CONCLUSIONS & RECOMMENDATIONS:

As the Proposal falls in Low Level Ecological Damage and EMP measures were in place (collectively for Thenmalai Limestone Mine) during the Violation Period, the Sub-Committee is of the opinion that the Maximum Environmental Compensation of Rs.30,00,000/- as per the CPCB Guidelines shall be levied. Accordingly, the maximum Environmental Compensation for will be Rs.30,00,000/- which has to be compensated as follows :


Sl. No.	Activity Proposed	Total (Rs.)
1	Cost of Ecological Damage Remediation Plan	12,00,000
2	Natural Resource Augmentation Plan	9,00,000
3	Community Resource Augmentation Plan	9,00,000
Grand Total		30,00,000

STATUTORY PROCEDURES TO BE FOLLOWED:

1. The Bank Guarantee for Rs. 30,00,000/- has to be given to TNPCB for successful implementation of the Schemes in 5 years period. The Bank Guarantee will be released after successful implementation of the Remediation Plan and Natural and Community Resource Augmentation Plan.
2. Credible Action under Section 19 of the E(P) Act shall also be complied for awarding the EC.

SEAC RECOMMENDATIONS

Even though the PP had submitted the Environmental Compension indicating the contribution towards to Ecological Damage Remediation Plan, Natural Resouse Augmentation and Community Resource Augmentation Plan for obtaining the EC under violation category, the SEAC has observed that the PP had not carried out the Public Hearing for the above proposal involving mining of major mineral, i.e., Limestone as all the major minerals are considered to be B1 Category vide MoEF OM/2013 (No. J)-


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13012/12/2013-IA-II (I)) - Categorization of Category 'B' projects/activities into Category 'B1' & 'B2', 24th December, 2013 which spells out:

"The guidelines for categorization of Category 'B' projects/activities into Category 'B1' & 'B2' are applicable only to those projects/activities mentioned above. All the other Category 'B' projects/activities listed under the Schedule of EIA Notification, 2006 and its amendments shall be considered as Category 'B1' projects and appraised as per the procedure prescribed in the EIA Notification"

Further, it is pertinent to observe that the EIA Notification dated 14.09.2006 has been amended vide Notifications dated 15.01.2016, 20.01.2016, 01.07.2016 and later, the EIA Notification 2018, dated.14.08.2018 which comments on the 'Mining of Minerals' with the 'Category with Threshold limit' of "<50 ha \geq 5 ha of mining lease area" specified as 'B' Category in the EIA Notification, 2006 is replaced with "<100 ha of mining lease area in respect of non-coal mine lease". Here, the mining of mineral was classified into B1 & B2 categories stipulating the conditions as given below:

- (i) for project or activity of mining of minor minerals of Category 'B2' (up to 25 ha of mining lease area);
- (ii) for project or activity of mining of minor minerals of Category 'B1' in case of cluster of mining lease area; and

The NGT Order (O.A. No. 186/2016) titled as Satendra Pandey vs. MoEF&CC & Anr., vide order dated 13.09.2018 and relevant part of the order reads as under:-

"21. Dispensing with the requirement of Public Hearing which forms a part of the Public Consultation under Stage-III of the Environmental Clearance process under EIA Notification, 2006 for areas measuring 0 to 25 ha for individual mine areas and in cluster situation where public hearing has been provided, has resulted in gross dilution of EIA Notification dated 14th September, 2006...."

Accordingly, the MoEF & CC, vide its OM F.No. L-11011/175/2018-IA0II (M) dated. 12.12.2018, has inter-alia directed as follows:

"....(i) Providing for EIA, EMP and therefore, Public Consultation for all areas from 5 to 25 ha falling member Category B-2 at par with


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Category B-1 by SEAC/SEIAA as well as for cluster situation wherever it is not provided:....

Now, it has been made clear that the Public Hearing is required to be conducted for the *areas measuring 5 to 25 ha for individual mine areas and also in cluster situation even in case of minor minerals.*

Hence, it has been established that the procedures stipulated for the appraisal of the projects involving the Mining of Minerals for obtaining the prior Environmental Clearance (or) Environmental Clearance under EIA Notification 2006 in consonance with EP Act 1986, are as follows:

Type of Mineral	B1		B2	
	Applicability	Obligatory	Applicability	Obligatory
Minor Minerals	<i>for project or activity of mining of minor minerals (Individual Mine Lease) possessing the mining lease area of extent of 5 ha or more.</i>	<i>Form -I, PFR, DSR and Approved Mine Plan and EIA and EMP; Public Hearing.</i>	<i>for project or activity of mining of minor minerals possessing the mining lease area of extent less than 5 ha.</i>	<i>Comprehensive Form -IM, PFR, DSR and Approved Mine Plan and EMP.</i>
Minor Minerals	<i>for project or activity of mining of minor minerals in case of cluster of mining lease areas possessing the cumulative mining lease area of extent of 5 ha or more, as defined in EIA Notifications, S.O.141 (E).</i>	<i>Form -I, PFR, DSR and Approved Mine Plan and EIA and EMP; Public Hearing.</i>	<i>for project or activity of mining of minor minerals in case of cluster of mining lease areas possessing the cumulative mining lease area of extent of less than or upto 5 ha, as defined in EIA Notifications,</i>	<i>Comprehensive Form -IM, PFR, DSR and Approved Mine Plan and One EMP for all leases in the Cluster.</i>

	15.01.2016 & S.O. 2269(E), 01.07.2016.		S.O.141 (E), 15.01.2016 & S.O. 2269(E), 01.07.2016.	
Major Minerals	<p>for project or activity of mining of minor minerals (Individual Mine Lease) (OR) in case of cluster of mining lease areas possessing the cumulative mining lease area of extent possessing the mining lease area of extent of ≤ 250 ha of mining lease area in respect of non-coal mine lease;</p> <p>Hence, vide amended Notifications S.O. 1886(E) dated 20.04.2022, it shall be dealt by the SEIAA/SEAC under the 'Category B':</p> <p>However, the EAC (MoEF & CC) will process the proposals of (i)</p>	<p>Form -I, PFR, DSR and Approved Mine Plan and EIA and EMP; Public Hearing.</p>	<p>It is well-known that there is no need of prior environmental clearance for the mining projects of major minerals of lease area less than 5 ha as per EIA Notification, 2006 either from the State Government or the Central Government till 15.01.2016.</p> <p>However, the EIA Notification S.O. 141, dated. 15.01.2016 with subsequent amendments has defined the scope for project or activity of mining of minor minerals only to be considered as Category 'B2' with area of extent less than 5 Ha. Further, the Mining of Major Minerals are treated under the Category of 'B1' as there is no Notification/OM/Circular issued by the Competent Authority describing</p>	

	<p>>250 ha mining lease area in respect of major mineral mining lease other than coal; (ii) >500 ha of mining lease area in respect of coal mine lease.</p> <p>(iii) Asbestos mining irrespective of mining area, under the 'Category A'.</p>		<p>the Category of Major Mineral possessing mining lease area of less than 5 Ha as 'B2'.</p>
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Recently, the MoEF & CC vide its Notification S.O. 2163 (E) , dated. 09.05.2022 clearly states that

"...Whereas, the Central Government in the erstwhile Ministry of Environment and Forests, in exercise of its powers under sub-section (1) and clause (v) of sub-section (2) of section (3) of the Environment (Protection) Act, 1986 has published the Environment Impact Assessment Notification, 2006 (hereinafter referred to as the EIA Notification, 2006) vide number S.O.1533 (E), dated the 14th September, 2006, for mandating prior Environmental Clearance (EC) for certain category of projects; And whereas, for the grant of prior EC, public hearing is mandatory and it is an integral part of the EC process, unless specifically exempted for certain activities as mentioned in the EIA Notification 2006, as amended from time to time....."

Therefore, after the long deliberations and discussions in the 416th SEAC Meeting, the SEAC has observed that the Public Hearing is mandatory for all mining projects of major mineral category irrespective of the area for ensuring the scientific & systematic mining and the conservation of major minerals, as per the provisions of the EIA Notification, 2006 as amended from time to time. Further, it is also noted that Public

Hearing is a pre-requisite for the following mining projects: (i) If the proposal is a new one. (ii) If a major mineral project is being submitted for environmental clearance to MOEF for the first time for proposed production and or lease area.

Based on the impact of the above EIA Notifications and legal implications observed by the Hon'ble NGT Judgements, the SEAC has decided to direct the PP to conduct the Public Hearing (PH) as per the procedure prescribed in EIA Notification, 2006 and submit the minutes of the PH with action plan, for considering the application/proposal towards the grant of EC.

After the receipt of the minutes of the Public Hearing submitted by the PP along with a valid Mining Lease, and approved Mining Plan/Scheme of Mining including the PMCP/FMCP for the proposed mining operations, the SEAC may deliberate the future course of action.

Agenda No. 416-TA - 06


(File No.6526/2022)

Existing Limestone Mine lease over an Extent of 2.52.0Ha at S.F.Nos. 1101/7, 1101/11, 1102/5A1 & 1102/5A2 of Thenmalai Village, Sivagiri Taluk, Tirunelveli District, Tamil Nadu by M/s. JanathaCem Industries Limited- For Environmental Clearance under Violation Category (SIA/TN/MIN/418598/2023 dated: 16.02.2023).

This proposal was placed in this 416th meeting of SEAC held on 13.10.2023. The details of the project furnished by the proponent are available on the PARIVESH web portal (parivesh.nic.in). The Project Proponent gave a detailed presentation.

The SEAC noted the following:

1. The Project Proponent, M/s. JanathaCem Industries Limited as applied for Environmental Clearance under Violation Category for the Existing Limestone Mine lease over an Extent of 2.52.0Ha at S.F.Nos. 1101/7, 1101/11, 1102/5A1 & 1102/5A2 of Thenmalai Village, Sivagiri Taluk, Tirunelveli District, Tamil Nadu.
2. The project/activity is covered under Category "B1" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006, as amended.
3. ToR issued vide Lr.No.SEIAA-TN/F.No.6526/TOR- 403/2018, dated: 16.05.2018 under Violation Category.


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4. Amendment to ToR vide Lr.No. SEIAA-TN vide 6526/SEAC-CXVIII/TOR-403(A)/2018 Dated: 30.07.2018.
5. Extension to ToR vide Lr. No. SEIAA-TN/F.No.6526/TOR-403/Ext/ dated: 26.09.2022
6. EIA report submitted on 05.03.2023.

Earlier, this proposal was placed in this 369th meeting of SEAC held on 20.04.2023. Based on the presentation made and documents furnished by the project proponent, the SEAC decided to constitute a SUB COMMITTEE to make an on-site inspection to assess the present status of the project site and environmental settings as the proposal falls under violation category and submit the report along with the recommendations to the Committee. Further the Committee called for the following additional details:

1. A letter from the Project Proponent justifying that the project activity is covered under Category "B2" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006, as amended.
2. Copy of approved review of scheme of mining plan by the competent authority of the Dept of Geology and Mining for the proposed period of quarrying.
3. The PP shall furnish the copy of receipt of the penalty levied by the Dept of Geology and Mining for the exploitation of mineral without prior EC.

Meanwhile, the SEAC decided to constitute a sub-committee to make on-site inspection to assess the present status of the proposed project, environmental settings and to assess ecological damage assessment whether it is being carried out in accordance with CPCB Guidelines, remediation plan, natural resource augmentation and community resource augmentation.

After the receipt of the additional details from the proponent and the evaluation report by the Sub-committee, the SEAC will deliberate on the issue of Environmental Clearance under violation category. SEAC also decided to request SEIAA-TN to initiate action under Sec. 19 of the Environment (Protection) Act, to be taken for violation cases, in accordance with law.

The Sub Committee report was placed in 416th SEAC meeting held on 13.10.2023. The observations made in the field and recommendation derived on the basis of the field visit are as below:


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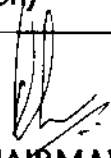
Chronology

Sl. No	Sequence of events	Date
1	Date of TOR Application with Online Proposal No. SIA/TN/MIN/65535/2018 (within Window Period) – Considered under Violation Category	18.06.2017
2	As per Gazette Notification S.O. 3977 (E) Dated 14.08.2018 Category B Project redirected to SEIAA - Date of TOR Application with Online Proposal No. SIA/TN/MIN/23112/2018	31.03.2018
3	TOR Meeting – 109 th held on	25.04.2018
4	Awarded TOR with PH: SEIAA-TN/F.No.6526/TOR-403/2018	16.05.2018
5	Applied for ToR Extension SIA/TN/MIN/267757/2022	13.04.2022
6	Extension ToR Granted: SEIAA-TN/F.No.6526/TOR-403/Extn/2018 Dated: 26.09.2022	26.09.2022
7	EC Application vide Online Proposal No. SIA/TN/MIN/418598/2023	19.04.2023
8	Deliberation in 369 th Meeting held on	20.04.2023
9	Recommended for Site Visit by Sub Committee	20.04.2023

Salient Features of the Project

Particulars	Details
Name of Project	Thenmalai Limestone Mines
Project Proponent	M/s. Janatha Cem Industries Limited
Location of mine	SF No. 1101/7, 1101/11, 1102/5A1 & 1102/5A2 Thenmalai village, Sivagiri Taluk, Tirunelveli district
Category of Project	B1
Proposed Capacity per Annum	1,17,478 TPA ROM (Peak production)


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Particulars	Details
Mine Lease Area	2.52.0 Ha
Life of Mine	7.0 years
Total Working Day/Year	264 days
Total Number of workers employed	17
Total Water Requirement & Source	2.5 KLD Source collected rain water & from water vendors
Latitude & Longitude	09° 19'35.85"N to 09°19'48.74"N 77° 32'23.65"E to 77° 32'31.50"E
Topo Sheet number	58 G/11
Eco Sensitivity	Srivilliputhur Grizzled Squirrel wildlife Sanctuary, Notified Eco Sensitive Area (ESA) vide S.O. 4500(E) dated 13.12.2019, is located at a distance of 14.5 km in North west direction from the Lease. The shortest Eco Sensitive Zone (ESZ) of Srivilliputhur Grizzled Squirrel wildlife Sanctuary is 13.5 km in North west direction. There are no other Eco Sensitive Areas like National Parks, Wildlife Sanctuaries, Biosphere Reserves, Wildlife Corridors, Ramsar Sites, Tiger/Elephant Reserves, Reserved Forests, etc. (existing as well as proposed) within 10 km from the Lease.
Type of Land	Patta Land
Method of Mining	Non – Conventional Opencast Method of Mining using Jackhammer drilling, Excavator for mining operation
Bench parameters	Height 4 meters & Width 6 m
Depth of Mining	53 m BGL
Dimension of the Pit	Pit – I = 172m (L) X 27m (W) X 33m (D)


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Particulars	Details
-Ultimate	Pit – II = 136m (L) X 71m (W) X 38.5m (D) Pit – III = 162m (L) X 44m (W) X 52m (D)
Nearest railway station	Rajapalayam – 14 km - (North)
Nearest Highway	NH 208 – Kollam – Thirumangalam – 11.0km -West
Nearest air port	Madurai Airport at 82.0 km in North east
Seismic zone	Zone-II
Cost of the Project	Rs.19.29 Lakhs

Mining Lease Details

Sl. No.	ML Grant	ML Grant Reference	Validity		Remarks
			From	To	
1	Initial Grant	G.O.No.824 Industries Department, Dated 25.05.1980	24.08.1980	23.08.1985	5 Years
2	First Renewal	G.O.M S. No. 459 Industries (MMD2) Department, Dated 09.05.1990	24.08.1985	23.08.1995	10 Years
3	Second Renewal	Applied mine lease application to state government on 19.08.1994	-	-	20 Years
4	MMDR (Amend) Act, 2015	-	26.03.2015	23.08.2030	

Mining Plan Details

Sl. No.	Mining Plan/Scheme	Plan Period	Approval vide IBM Letter Reference
1	Scheme of Mining	2010-11 to 2014 -15	TN/TNL/MS.959.MDS, dated 05.11.2013
2	Scheme of Mining	2015-16 to 2019 -20	TN/TNL/LST/MS-1280.MDS, dated 18.12.2015


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3	Modified Mining plan	2017-18 to 2019-20	TN/TNL/LST/MP-2023.MDS, dated: 07.06.2017
4	Review of mining plan	2020-21 to 2024-25	TN/TNL/LST/ROMP-1629.MDS, dated: 30.12.2020

Details of Mining

Sl. No.	Particulars	Details
1	Method of mining	Non- Conventional Opencast Method of Mining (using jack hammer drilling, Controlled blasting and using Excavator)
2	Geological reserve	12,79,481 Tonnes of ROM
3	Mineable reserve available- As on 16.09.2020	6,43,395 Tonnes of ROM Recovery was 100% (80% high grade+20% low grade) limestone
4	Proposed production (Peak production)	1,17,478 tonnes ROM Recovery was 100% (80% high grade+20% low grade) limestone
5	Elevation range of the mine site	Top RL 134 m
6	Bench height	4.0m
7	Bench width	6 m
8	Bench slope	45° to 60° to vertical
9	Proposed Depth of mining	41m BGL
10	Life of mine	7.0 years

Past Production Details

Year	Proposal (Tonnes)			Actual (Tonnes)		
	Rom (Ts)	High grade Limestone @ 80% (Ts)	Low grade @ 20% (Ts)	Rom (Ts)	High Grade Limestone @ 80% (Ts)	Low Grade Limestone @ 20% (Ts)
2017-18	71778	57423	14356	The mine was temporarily discontinued from January 2017 due to statutory reasons. Hence the Actual Production was Nil.		
2018-19	78894	63116	15779			
2019-20	56997	45598	11399			
Total	207670	166136	41534			


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Proposed Production Details

As per the Review of Mining Plan approved by Indian Bureau of Mines vide Letter No. Lr.No. TN/TNL/LST/ROMP-1629.MDS, dated: 30.12.2020, the proposed production is as follows.

Summary of yearwise [2020-21 to 2024-25]


Year	ROM(Ts)	High grade Limestone @ 80% (Ts)	Low Grade Limestone@ 20% (Ts)	Top Soil (Ts)	Side burden (Ts)	Ore waste ratio
2020-21	111556	89244	22311	1748	76526	1;0.69
2021-22	97885	78308	19577	-	26364	1;0.27
2022-23	117478	93983	23496	50	14435	1;0.12
2023-24	48537	38829	9707	4536	19718	1;0.41
2024-25	105971	84777	21194	-	2746	1;0.03
Total	481426	385141	96285	6334	139789	1;0.29

OBSERVATIONS OF THE SEAC SUB-COMMITTEE DURING THE PROJECT SITE INSPECTION


1. Sub Committee has visited Thenmalai Limestone Mine (F.No. 6526) during the Inspection to have over all mining scenario.
2. Lease area is extent of 2.52.0 Ha in SF No. 1101/7, 1101/11, 1102/5A1 & 1102/5A2 and is operated with two leases previously and third lease is obtained which is valid up to 23.08.2030 (As per Amended MMDR Act 2015).
3. Lease area is compeltely wire fenced in all side.
4. Nearest settlements/habitations are observed in 320 m along the southeast direction.
5. Nearest water bodies is 100m in the north and pond at 5 km northwest.
6. There was no mining activities in the lease area pit.
7. Rain water accumulated in the Pit and atleast 5 meters are covered in water, as noticed.
8. During Violation Period, Non – Conventional Opencast Method of Mining using Jackhammer drilling, Excavator for mining operation were carried out in the Lease.
9. There was no Top Soil and Over Burden generation during the Period and thus no waste dump in the Lease.


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132


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10. During violation period (from 15.01.2016 to 10.01.2017) around 56,000 Tonnes of Limestones has been mined and transported.
11. Penalty Amount of Rs 2,69,08,000/- (Two crores sixty nine lakhs and eight thousand only) has been imposed as per the District collector Letter No 1/29423/2019-19 Dated 20.08.2019 which has not been paid by the Proponent. The mine owners had appealed in the Madurai Bench of Madras High court W.P. No. 24463/2018 for the violation cases to revised the penalty cost and is pending with Madurai bench of High court.
12. No Ground Water-table intersection as noticed in the existing benches of the lease area.
13. Statuary documents like Patta, FMB sketch, Village Map, Mining Lease G.O. copy, River of mining plan approval letter, HEMM Permission letter, Permission letter to Amalgamation, penalty letter from the District Collector are verified.
14. There are six mining lease got amalgamation total extent of the mining leases (6 leases) 10.96.0 Ha.
15. As per the committee recommendations, 500 trees per hectare and total number of trees would be around 6,600 trees will be planted by the proponent. Considering the 80% survival 5,480 trees are expected to grow.
16. Green Belt, common in the lease area, was developed along the periphery of Mine Pits including in Safety Barriers.
17. Garland Drains are not provided along the periphery.
18. Green belt developed along the eastern side boundaries are infested with *Procopius juliflora* which are to be eradicated and additional green belt shall be developed.
19. Overall, the EIA report has predicted that the project will comply with all environment standards and legislation after commencement of the project and operational stage mitigation measures are implemented.
20. Re opening of this mining will meet the raw material requirement for the CAPTIVE cement plant
21. Direct and Indirect Employment opportunities will create due to this project


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22. Sustainable and modern mining leads us to see positive impact of mining operation and providing employment for nearly 90 people directly.
23. The capital EMP cost for the proposed mining activity is Rs. 25,18,583/- and recurring EMP cost is Rs. 7,60,083/-.
24. The CSR activities will be carried to near Government school with a cost of Rs. 5.00 lakhs.
25. Project Cost is Rs.19.29 Lakhs.

MINING PLAN APPROVALS

The Regional Controller of Mines, Indian Bureau of Mines (IBM), Chennai has accorded its Approval periodically for Mining Plans/Schemes. For recent Review of Mining Plan (ROMP) for the Period 2020-21 to 2024-25 vide Letter No. TN/TNL/LST/ROMP-1629.MDS, dated: 30.12.2020

PENALTY FOR VIOLATION

M/s. Janathacem Industries Limited has received Demand Notice from the District Collector, Tirunelveli for 100% cost of Mineral value of Limestone quantity of 56,000 Tonnes produced without EC vide Rc. No. M1/29423/2019-20 dated 20.08.2019 for Rs.2,69,08,000/-. M/s. Janathacem Industries Limited have not remitted the amount to Department of Geology and Mining.

CONCLUSIONS & RECOMMENDATIONS:

As the Proposal falls in Low Level Ecological Damage and EMP measures were in place (collectively for Thenmalai Limestone Mine) during the Violation Period, the Sub-Committee is of the opinion that the Maximum Environmental Compensation of Rs.30,00,000/- as per the CPCB Guidelines shall be levied. Accordingly, the maximum Environmental Compensation for will be Rs.30,00,000/- which has to be compensated as follows :

Sl. No.	Activity Proposed	Total (Rs.)
1	Cost of Ecological Damage Remediation Plan	12,00,000
2	Natural Resource Augmentation Plan	9,00,000
3	Community Resource Augmentation Plan	9,00,000
Grand Total		30,00,000


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STATUTORY PROCEDURES TO BE FOLLOWED:

1. The Bank Guarantee for Rs. 30,00,000/- has to be given to TNPCB for successful implementation of the Schemes in 5 years period. The Bank Guarantee will be released after successful implementation of the Remediation Plan and Natural and Community Resource Augmentation Plan.
2. Credible Action under Section 19 of the E(P) Act shall also be complied for awarding the EC.
3. The company shall produce the 'No Dues Certificate' obtained from the State Government i.e. Department of Geology & Mining to the SEIAA before grant of EC, if it is not submitted earlier.

SEAC RECOMMENDATIONS

Even though the PP had submitted the Environmental Compension indicating the contribution towards to Ecological Damage Remediation Plan, Natural Resouse Augmentation and Community Resource Augmentation Plan for obtaining the EC under violation category, the SEAC has observed that the PP had not carried out the Public Hearing for the above proposal involving mining of major mineral, i.e., Limestone as all the major minerals are considered to be B1 Category vide MoEF OM 2013 (No. J-13012/12/2013-IA-11 (I)) - Categorization of Category 'B' projects/activities into Category 'B1' & 'B2', 24th December, 2013 which spells out

"The guidelines for categorization of Category 'B' projects/activities into Category 'B1' & 'B2' are applicable only to those projects/activities mentioned above. All the other Category 'B' projects/activities listed under the Schedule of EIA Notification, 2006 and its amendments shall be considered as Category 'B1' projects and appraised as per the procedure prescribed in the EIA Notification"

Further, it is pertinent to observe that the EIA Notification dated 14.09.2006 has been amended vide Notifications dated 15.01.2016, 20.01.2016, 01.07.2016 and later, the EIA Notification 2018, dated.14.08.2018 which comments on the 'Mining of Minerals' with the 'Category with Threshold limit' of "<50 ha \geq 5 ha of mining lease area" specified as 'B' Category in the EIA Notification, 2006 is replaced with "<100 ha of mining lease area in respect of non-coal mine lease". Here, the mining of mineral was classified into B1 & B2 categories stipulating the conditions as given below:


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135


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SEAC- TN

- (i) for project or activity of mining of minor minerals of Category 'B2' (up to 25 ha of mining lease area);
- (ii) for project or activity of mining of minor minerals of Category 'B1' in case of cluster of mining lease area; and

The NGT Order (O.A. No. 186/2016) titled as Satendra Pandey vs. MoEF&CC & Anr., vide order dated 13.09.2018 and relevant part of the order reads as under:-

"21. Dispensing with the requirement of Public Hearing which forms a part of the Public Consultation under Stage-III of the Environmental Clearance process under EIA Notification, 2006 for areas measuring 0 to 25 ha for individual mine areas and in cluster situation where public hearing has been provided, has resulted in gross dilution of EIA Notification dated 14th September, 2006...."

Accordingly, the MoEF & CC, vide its OM F.No. L-11011/175/2018-IA0II (M) dated. 12.12.2018, has inter-alia directed as follows:

"....(i) Providing for EIA, EMP and therefore, Public Consultation for all areas from 5 to 25 ha falling member Category B-2 at par with Category B-1 by SEAC/SEIAA as well as for cluster situation wherever it is not provided;...."

Now, it has been made clear that the Public Hearing is required to be conducted for the *areas measuring 5 to 25 ha for individual mine areas and also in cluster situation even in case of minor minerals.*

Hence, it has been established that the procedures stipulated for the appraisal of the projects involving the Mining of Minerals for obtaining the prior Environmental Clearance (or) Environmental Clearance under EIA Notification 2006 in consonance with EP Act 1986, are as follows:

Type of B1		B2	
Mineral	Applicability	Obligatory	Obligatory
Minor Minerals	for project or activity of mining of minor minerals (Individual Mine	Form -I, PFR, DSR and Approved	for project or activity of mining of minor minerals possessing the Comprehensive Form -IM, PFR, DSR and



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SEAC -TN

136


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SEAC- TN

	<i>Lease) possessing the mining lease area of extent of 5 ha or more.</i>	<i>Mine Plan and EIA and EMP; Public Hearing.</i>	<i>mining lease area of extent less than 5 ha.</i>	<i>Approved Mine Plan and EMP.</i>
Minor Minerals	<i>for project or activity of mining of minor minerals in case of cluster of mining lease areas possessing the cumulative mining lease area of extent of 5 ha or more, as defined in EIA Notifications, S.O.141 (E), 15.01.2016 & S.O. 2269(E), 01.07.2016.</i>	<i>Form -I, PFR, DSR and Approved Mine Plan and EIA and EMP; Public Hearing.</i>	<i>for project or activity of mining of minor minerals in case of cluster of mining lease areas possessing the cumulative mining lease area of extent of less than or upto 5 ha, as defined in EIA Notifications, S.O.141 (E), 15.01.2016 & S.O. 2269(E), 01.07.2016.</i>	<i>Comprehensive Form -1M, PFR, DSR and Approved Mine Plan and One EMP for all leases in the Cluster.</i>
Major Minerals	<i>for project or activity of mining of minor minerals (Individual Mine Lease) (OR) in case of cluster of mining lease areas possessing the cumulative mining lease area of extent possessing the mining lease area of</i>	<i>Form -I, PFR, DSR and Approved Mine Plan and EIA and EMP; Public Hearing.</i>	<i>It is well-known that there is no need of prior environmental clearance for the mining projects of major minerals of lease area less than 5 ha as per EIA Notification, 2006 either from the State</i>	

<p>extent of ≤ 250 ha of mining lease area in respect of non-coal mine lease;</p> <p>Hence, vide amended Notifications S.O. 1886(E) dated 20.04.2022, it shall be dealt by the SEIAA/SEAC under the 'Category B':</p> <p>However, the EAC (MoEF & CC) will process the proposals of (i) >250 ha mining lease area in respect of major mineral mining lease other than coal; (ii) >500 ha of mining lease area in respect of coal mine lease.</p> <p>(iii) Asbestos mining irrespective of mining area, under the 'Category A'.</p>		<p>Government or the Central Government till 15.01.2016.</p> <p>However, the EIA Notification S.O. 141, dated. 15.01.2016 with subsequent amendments has defined the scope for project or activity of mining of minor minerals only to be considered as Category 'B2' with area of extent less than 5 Ha. Further, the Mining of Major Minerals are treated under the Category of 'B1' as there is no Notification/OM/Circular issued by the Competent Authority describing the Category of Major Mineral possessing mining lease area of less than 5 Ha as 'B2'.</p>
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Recently, the MoEF & CC vide its Notification S.O. 2163 (E) , dated. 09.05.2022 clearly states that

"....Whereas, the Central Government in the erstwhile Ministry of Environment and Forests, in exercise of its powers under sub-section (1) and clause (v) of sub-section (2) of section (3) of the Environment (Protection) Act, 1986 has published the Environment Impact Assessment Notification, 2006 (hereinafter referred to as the EIA Notification, 2006) vide number S.O.1533 (E), dated the 14th September, 2006, for mandating prior Environmental Clearance (EC) for certain category of projects; And whereas, for the grant of prior EC, public hearing is mandatory and it is an integral part of the EC process, unless specifically exempted for certain activities as mentioned in the EIA Notification 2006, as amended from time to time....."

Therefore, after the long deliberations and discussions in the 416th SEAC Meeting, the SEAC has observed that the Public Hearing is mandatory for all mining projects of major mineral category irrespective of the area for ensuring the scientific & systematic mining and the conservation of major minerals, as per the provisions of the EIA Notification, 2006 as amended from time to time. Further, it is also noted that Public Hearing is a pre-requisite for the following mining projects: (i) If the proposal is a new one. (ii) If a major mineral project is being submitted for environmental clearance to MOEF for the first time for proposed production and or lease area.

Based on the impact of the above EIA Notifications and legal implications observed by the Hon'ble NGT Judgements, the SEAC has decided to direct the PP to conduct the Public Hearing (PH) as per the procedure prescribed in EIA Notification, 2006 and submit the minutes of the PH with action plan, for considering the application/proposal towards the grant of EC.

After the receipt of the minutes of the Public Hearing submitted by the PP along with a valid Mining Lease, and approved Mining Plan/Scheme of Mining including the PMCP/FMCP for the proposed mining operations, the SEAC may deliberate the future course of action.


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Agenda No. 416-TA - 07

(File No.6527/2022)

Existing Limestone Mine lease over an Extent of 2.18.9Ha at S.F.Nos. 1102/4, 1102/5B, 1102/6, 1102/7 & 1103/3B (Part), Thenmalai village, Sivagiri Taluk, Tirunelveli district, Tamil Nadu by M/s. JanathaCem Industries Limited- For Environmental Clearance under Violation Category (SIA/TN/MIN/418598/2023 dated: 16.02.2023).

This proposal was placed in this 416th meeting of SEAC held on 13.10.2023. The details of the project furnished by the proponent are available on the PARIVESH web portal (parivesh.nic.in). The Project Proponent gave a detailed presentation.

The SEAC noted the following:

1. The Project Proponent, M/s. JanathaCem Industries Limited as applied for Environmental Clearance under Violation Category for the Existing Limestone Mine lease over an Extent of 2.18.9Ha at S.F.Nos. 1102/4, 1102/5B, 1102/6, 1102/7 & 1103/3B (Part), Thenmalai village, Sivagiri Taluk, Tirunelveli district, Tamil Nadu.
2. The project/activity is covered under Category "B1" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006, as amended.
3. ToR issued vide Lr.No. SEIAA-TN/F.No.6527/TOR-491/2018, dated: 16.05.2018 under Violation Category.
4. Extension to ToR vide Lr. No. SEIAA-TN/F.No.6527/TOR-323/Extn / dated: 26.09.2022
5. EIA report submitted on 19.04.2023.

Earlier, this proposal was placed in this 369th meeting of SEAC held on 20.04.2023. Based on the presentation made and documents furnished by the project proponent, the SEAC decided to constitute a SUB COMMITTEE to make an on-site inspection to assess the present status of the project site and environmental settings as the proposal falls under violation category and submit the report along with the recommendations to the Committee.

Further the Committee called for the following additional details:

1. A letter from the Project Proponent justifying that the project activity is covered under Category "B2" of Item 1(a) "Mining of Minerals Projects" of the Schedule


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to the EIA Notification, 2006, as amended.

2. Copy of approved review of scheme of mining plan by the competent authority of the Dept of Geology and Mining for the proposed period of quarrying.
3. The PP shall furnish the copy of receipt of the penalty levied by the Dept of Geology and Mining for the exploitation of mineral without prior EC.

Meanwhile, the SEAC decided to constitute a sub-committee to make on-site inspection to assess the present status of the proposed project, environmental settings and to assess ecological damage assessment whether it is being carried out in accordance with CPCB Guidelines, remediation plan, natural resource augmentation and community resource augmentation.

After the receipt of the additional details from the proponent and the evaluation report by the Sub-committee, the SEAC will deliberate on the issue of Environmental Clearance under violation category. SEAC also decided to request SEIAA-TN to initiate action under Sec. 19 of the Environment (Protection) Act, to be taken for violation cases, in accordance with law.

The Sub Committee report was placed in 416th SEAC meeting held on 13.10.2023. The observations made in the field and recommendation derived on the basis of the field visit are as below:

Sl. No	Sequence of events	Date
1	Date of TOR Application with Online Proposal No. SIA/TN/MIN/65538/2018 (within Window Period) – Considered under Violation Category	07.10.2017
2	As per Gazette Notification S.O. 3977 (E) Dated 14.08.2018 Category B Project redirected to SEIAA - Date of TOR Application with Online Proposal No. SIA/TN/MIN/23123/2018	31.03.2018
3	TOR Meeting – 109 th held on	25.04.2018
4	Awarded TOR with PH: SEIAA-TN/F.No.6527/TOR-491/2018	16.05.2018
5	Applied for ToR Extension SIA/TN/MIN/267753/2022	25.04.2022
6	Extension ToR Granted: SEIAA-TN/F.No.6527/TOR-	26.09.2022


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SEAC- TN

	323/Extn/ Dated: 26.09.2022	
7	EC Application vide Online Proposal No. SIA/TN/MIN/418307/2023	19.04.2023
8	Deliberation in 369 th Meeting held on	20.04.2023
9	Recommended for Site Visit by Sub Committee	20.04.2023

Salient Features of the Project

Particulars	Details
Name of Project	Thenmalai Limestone Mines
Project Proponent	M/s. Janatha Cem Industries Limited
Location of mine	SF No. 1102/4, 1102/5B, 1102/6, 1102/7 & 1103/3B (Part), Thenmalai village, Sivagiri Taluk, Tirunelveli district
Category of Project	B1
Proposed Capacity per Annum	21,341 TPA ROM (Peak production)
Mine Lease Area	2.18.9 Ha
Life of Mine	6.5 years
Total Working Day/Year	264 days
Total Number of workers employed	17
Total Water Requirement & Source	2.5 KLD Source collected rain water & from water vendors
Latitude & Longitude	09°19' 46.96" N to 09° 18'35.29"N 77° 32' 32.49"E to 77° 32' 27.89"E
Topo Sheet number	58 G/11
Eco Sensitivity	Srivilliputhur Grizzled Squirrel wildlife Sanctuary, Notified Eco Sensitive Area (ESA) vide S.O. 4500(E) dated 13.12.2019, is located at a distance of 14.5 km in North west direction from the Lease. The shortest Eco Sensitive Zone (ESZ) of Srivilliputhur Grizzled


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Particulars	Details
	Squirrel wildlife Sanctuary is 13.5 km in North west direction. There are no other Eco Sensitive Areas like National Parks, Wildlife Sanctuaries, Biosphere Reserves, Wildlife Corridors, Ramsar Sites, Tiger/Elephant Reserves, Reserved Forests, etc. (existing as well as proposed) within 10 km from the Lease.
Type of Land	Patta Land
Method of Mining	Non – Conventional Opencast Method of Mining using Jackhammer drilling, Excavator for mining operation
Bench parameters	Height 4 meters & Width 6 m
Depth of Mining	49 m BGL
Dimension of the Pit -Ultimate	Pit – I = 215m (L) X 54m (W) X 49m (D) Pit – II = 44m (L) X 32m (W) X 49m (D) Pit – III = 104m (L) X 53m (W) X 21m (D)
Nearest railway station	Rajapalayam – 14 km - (North)
Nearest Highway	NH 208 – Kollam – Thirumangalam – 11.0km -West
Nearest air port	Madurai Airport at 82.0 km in North east
Seismic zone	Zone-II
Cost of the Project	Rs.19.81 Lakhs

Mining Lease Details

Sl. No.	ML Grant	ML Grant Reference	Validity		Remarks
			From	To	
1	Initial Grant	G.O. No. - 355 Industries, dated 15.03.1984	02.07.1984	01.07.1987	3 Years
2	First Renewal	G.O.M S. No. 170 Industries (D.II)	02.07.1987	01.07.1997	10 Years


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143


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		Department, Dated 16.03.1989			
3	Second Renewal	Applied mine lease application to state government on 26.06.1996	-	-	20 Years
4	MMDR (Amend) Act, 2015	-	26.03.2015	01.07.2034	

Mining Plan Details

Sl. No.	Mining Plan/Scheme	Plan Period	Approval vide IBM Letter Reference
1	Scheme of Mining	2004-05 to 2008 -09	TN/TNL/LST/MS-322-MDS dated, 29.06.2005
2	Scheme of Mining	2015-16 to 2019 -20	TN/TNL/LST/MS- 1278.MDS, dated 18.12.2015
3	Modified Mining plan	2017-18 to 2019-20	TN/TNL/LST/MP-2025.MDS, dated: 06.06.2017
4	Review of mining plan	2020-21 to 2024-25	TN/TNL/LST/ROMP-1627.MDS, dated: 30.12.2020

Details of Mining

Sl. No.	Particulars	Details
1	Method of mining	Non- Conventional Opencast Method of Mining (using jack hammer drilling, Controlled blasting and using Excavator)
2	Geological reserve	5,04,727 Tonnes of ROM
3	Mineable reserve available- As on 16.09.2020	1,25,065 Tonnes of ROM Recovery was 100% (80% high grade+20% low grade) limestone
4	Proposed production	21,341 tonnes ROM


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	(Peak production)	Recovery was 100% (80% high grade+20% low grade) limestone
5	Elevation range of the mine site	Top RL 134 m
6	Bench height	4.0m
7	Bench width	6 m
8	Bench slope	45° to 60° to vertical
9	Proposed Depth of mining	49m BGL
10	Life of mine	6.5 years

Past Production Details

Year	Proposal (Tonnes)			Actual (Tonnes)		
	Rom (Ts)	High grade Limestone @ 80% (Ts)	Low grade @ 20% (Ts)	Rom (Ts)	High Grade Limestone @ 80% (Ts)	Low Grade Limestone @ 20% (Ts)
2017-18	14352	11482	2870	The mine was temporarily discontinued from January 2017 due to statutory reasons. Hence the Actual Production was Nil.		
2018-19	13291	10633	2658			
2019-20	10310	8241	2060			
Total	37944	30356	7589			

Proposed Production Details

As per the Review of Mining Plan approved by Indian Bureau of Mines vide Letter No. Lr.No. TN/TNL/LST/ROMP-1627.MDS, dated: 30.12.2020, the proposed production is as follows.

Summary of yearwise [2020-21 to 2024-25]

Year	ROM(Ts)	High grade Limestone @ 80% (Ts)	Low Grade Limestone@ 20% (Ts)	Top Soil (Ts)	Side burden (Ts)	Ore waste ratio
2020-21	19646	15716	3929	2480	43680	1:2.22
2021-22	19765	15812	3953	12	12142	1:0.61
2022-23	21341	17073	4268	-	-	-
2023-24	19365	15492	3873	6164	1685	1:0.09
2024-25	19760	15808	3952	-	94	1:0.28
Total	99876	79901	19975	8656	57600	1:0.63

Ecological Damage Assessment

Other than operating the Mine without required EC after 15.01.2016, and one more violation observed that the mine was operated without CTO there. M/s. Janathacem


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SEAC -TN


145


CHAIRMAN
SEAC- TN

Industries Limited received the Demand Notice from the District Collector, Tirunelveli for 100% cost of Mineral value of Limestone quantity produced i.e, 39,750 Tonnes without EC vide Rc. No. M1/29423/2019-18, Dated 20.08.2019 for Rs.1,89,35,750/-. M/s. Janathacem Industries Limited have not remitted the amount to Department of Geology and Mining.

OBSERVATIONS OF THE SEAC SUB-COMMITTEE DURING THE PROJECT SITE INSPECTION

1. Sub Committee has visited Thenmalai Limestone Mine (F.No. 6527) during the Inspection to have over all mining scenario.
2. Lease area is extent of 2.18.9 Ha in SF No. 1102/4, 1102/5B, 1102/6, 1102/7 & 1103/3B and is operated with two leases previously and third lease is obtained which is valid up to 01.07.2034 (As per Amended MMDR Act 2015).
3. Lease area is compeltely wire fenced in all side.
4. Nearest settlements/habitations are observed in 320 m along the southeast direction.
5. Nearest water bodies is 100m in the north and pond at 5 km northwest.
6. There was no mining activities in the lease area pit.
7. Rain water accumulated in the Pit and atleast 5 meters are covered in water, as noticed.
8. During Violation Period, Non – Conventional Opencast Method of Mining using Jackhammer drilling, Excavator for mining operation were carried out in the Lease.
9. There was no Top Soil and Over Burden generation during the Period and thus no waste dump in the Lease.
10. During violation period (from 15.01.2016 to 10.01.2017) around 39,750 Tonnes of Limestones has been mined and transported.
11. Penalty Amount of Rs 1,89,35,750/- (One crores eighty nine lakhs thirty five thousand seven hundred and fifty only) has been imposed as per the District collector Letter No 1/29423/2019-19 Dated 20.08.2019 which has not been paid by the Proponent. The mine owners had appealed in the Madurai Bench of Madras High court W.P. No. 24463/2018 for the violation cases to revised the


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- penalty cost and is pending with Madurai bench of High court.
12. No Ground Water-table intersection as noticed in the existing benches of the lease area.
 13. Statuary documents like Patta, FMB sketch, Village Map, Mining Lease G.O. copy, River of mining plan approval letter, HEMM Permission letter, Permission letter to Amalgamation, penalty letter from the District Collector are verified.
 14. There are six mining lease got amalgamation total extent of the mining leases (6 leases) 10.96.0 Ha.
 15. As per the committee recommendations, 500 trees per hectare and total number of trees would be around 6,600 trees will be planted by the proponent. Considering the 80% survival 5,480 trees are expected to grow.
 16. Green Belt, common in the lease area, was developed along the periphery of Mine Pits including in Safety Barriers.
 17. Garland Drains are not provided along the periphery.
 18. Green belt developed along the eastern side boundaries are infested with *Procopius juliflora* which are to be eradicated and additional green belt shall be developed.
 19. Overall, the EIA report has predicted that the project will comply with all environment standards and legislation after commencement of the project and operational stage mitigation measures are implemented.
 20. Re opening of this mining will meet the raw material requirement for the CAPTIVE cement plant
 21. Direct and Indirect Employment opportunities will create due to this project
 22. Sustainable and modern mining leads us to see positive impact of mining operation and providing employment for nearly 90 people directly.
 23. The capital EMP cost for the proposed mining activity is Rs. 25,18,583/- and recurring EMP cost is Rs. 7,60,083/-.
 24. The CSR activities will be carried to near Government school with a cost of Rs. 5.00 lakhs.
 25. Project Cost is Rs.19.81 Lakhs.


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CONCLUSIONS & RECOMMENDATIONS:

As the Proposal falls in Low Level Ecological Damage and EMP measures were in place (collectively for Thenmalai Limestone Mine) during the Violation Period, the Sub-Committee is of the opinion that the Maximum Environmental Compensation of Rs.30,00,000/- as per the CPCB Guidelines shall be levied. Accordingly, the maximum Environmental Compensation for will be Rs.30,00,000/- which has to be compensated as follows :

Sl. No.	Activity Proposed	Total (Rs.)
1	Cost of Ecological Damage Remediation Plan	12,00,000
2	Natural Resource Augmentation Plan	9,00,000
3	Community Resource Augmentation Plan	9,00,000
Grand Total		30,00,000

STATUTORY PROCEDURES TO BE FOLLOWED:

1. The Bank Guarantee for Rs. 30,00,000/- has to be given to TNPCB for successful implementation of the Schemes in 5 years period. The Bank Guarantee will be released after successful implementation of the Remediation Plan and Natural and Community Resource Augmentation Plan.
2. Credible Action under Section 19 of the E(P) Act shall also be complied for awarding the EC.

SEAC RECOMMENDATIONS

Even though the PP had submitted the Environmental Compensation indicating the contribution towards to Ecological Damage Remediation Plan, Natural Resource Augmentation and Community Resource Augmentation Plan for obtaining the EC under violation category, the SEAC has observed that the PP had not carried out the Public Hearing for the above proposal involving mining of major mineral, i.e., Limestone as all the major minerals are considered to be B1 Category vide MoEF OM 2013 {No. J-13012/12/2013-IA-11 (I)} - Categorization of Category 'B' projects/activities into Category 'B1' & 'B2, 24th December, 2013 which spells out


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"The guidelines for categorization of Category 'B' projects/activities into Category 'B1' & 'B2' are applicable only to those projects/activities mentioned above. All the other Category 'B' projects/activities listed under the Schedule of EIA Notification, 2006 and its amendments shall be considered as Category 'B1' projects and appraised as per the procedure prescribed in the EIA Notification"

Further, it is pertinent to observe that the EIA Notification dated 14.09.2006 has been amended vide Notifications dated 15.01.2016, 20.01.2016, 01.07.2016 and later, the EIA Notification 2018, dated.14.08.2018 which comments on the 'Mining of Minerals' with the 'Category with Threshold limit' of "<50 ha \geq 5 ha of mining lease area" specified as 'B' Category in the EIA Notification, 2006 is replaced with "<100 ha of mining lease area in respect of non-coal mine lease". Here, the mining of mineral was classified into B1 & B2 categories stipulating the conditions as given below:

- (i) for project or activity of mining of minor minerals of Category 'B2' (up to 25 ha of mining lease area);
- (ii) for project or activity of mining of minor minerals of Category 'B1' in case of cluster of mining lease area; and

The NGT Order (O.A. No. 186/2016) titled as Satendra Pandey vs. MoEF&CC & Anr., vide order dated 13.09.2018 and relevant part of the order reads as under:-

"21. Dispensing with the requirement of Public Hearing which forms a part of the Public Consultation under Stage-III of the Environmental Clearance process under EIA Notification, 2006 for areas measuring 0 to 25 ha for individual mine areas and in cluster situation where public hearing has been provided, has resulted in gross dilution of EIA Notification dated 14th September, 2006...."

Accordingly, the MoEF & CC, vide its OM F.No. L-11011/175/2018-IA011 (M) dated. 12.12.2018, has inter-alia directed as follows:

"....(i) Providing for EIA, EMP and therefore, Public Consultation for all areas from 5 to 25 ha falling member Category B-2 at par with Category B-1 by SEAC/SEIAA as well as for cluster situation wherever it is not provided;...."

Now, it has been made clear that the Public Hearing is required to be conducted for the *areas measuring 5 to 25 ha for individual mine areas and also in cluster situation even in case of minor minerals.*

Hence, it has been established that the procedures stipulated for the appraisal of the projects involving the Mining of Minerals for obtaining the prior Environmental Clearance (or) Environmental Clearance under EIA Notification 2006 in consonance with EP Act 1986, are as follows:

Type of Mineral	B1		B2	
	Applicability	Obligatory	Applicability	Obligatory
Minor Minerals	<i>for project or activity of mining of minor minerals (Individual Mine Lease) possessing the mining lease area of extent of 5 ha or more.</i>	<i>Form -I, PFR, DSR and Approved Mine Plan and EIA and EMP; Public Hearing.</i>	<i>for project or activity of mining of minor minerals possessing the mining lease area of extent less than 5 ha.</i>	<i>Comprehensive Form -1M, PFR, DSR and Approved Mine Plan and EMP.</i>
Minor Minerals	<i>for project or activity of mining of minor minerals in case of cluster of mining lease areas possessing the cumulative mining lease area of extent of 5 ha or more, as defined in EIA Notifications, S.O.141 (E), 15.01.2016 & S.O.</i>	<i>Form -I, PFR, DSR and Approved Mine Plan and EIA and EMP; Public Hearing.</i>	<i>for project or activity of mining of minor minerals in case of cluster of mining lease areas possessing the cumulative mining lease area of extent of less than or upto 5 ha, as defined in EIA Notifications, S.O.141 (E), 15.01.2016 & S.O.</i>	<i>Comprehensive Form -1M, PFR, DSR and Approved Mine Plan and One EMP for all leases in the Cluster.</i>

	2269(E), 01.07.2016.		2269(E), 01.07.2016.	
Major Minerals	<p>for project or activity of mining of minor minerals (Individual Mine Lease) (OR) in case of cluster of mining lease areas possessing the cumulative mining lease area of extent possessing the mining lease area of extent of ≤ 250 ha of mining lease area in respect of non-coal mine lease;</p> <p>Hence, vide amended Notifications S.O. 1886(E) dated 20.04.2022, it shall be dealt by the SEIAA/SEAC under the 'Category B':</p> <p>However, the EAC (MoEF & CC) will process the proposals of (i) >250 ha mining lease area in respect</p>	<p>Form -I, PFR, DSR and Approved Mine Plan and EIA and EMP; Public Hearing.</p>	<p>It is well-known that there is no need of prior environmental clearance for the mining projects of major minerals of lease area less than 5 ha as per EIA Notification, 2006 either from the State Government or the Central Government till 15.01.2016.</p> <p>However, the EIA Notification S.O. 141, dated. 15.01.2016 with subsequent amendments has defined the scope for project or activity of mining of minor minerals only to be considered as Category 'B2' with area of extent less than 5 Ha. Further, the Mining of Major Minerals are treated under the Category of 'B1' as there is no Notification/OM/Circular issued by the Competent Authority describing the Category of Major Mineral</p>	

of major mineral mining lease other than coal: (ii) >500 ha of mining lease area in respect of coal mine lease. (iii) Asbestos mining irrespective of mining area, under the 'Category A':		possessing mining lease area of less than 5 Ha as 'B2'.
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Recently, the MoEF & CC vide its Notification S.O. 2163 (E) , dated. 09.05.2022 clearly states that

"....Whereas, the Central Government in the erstwhile Ministry of Environment and Forests, in exercise of its powers under sub-section (1) and clause (v) of sub-section (2) of section (3) of the Environment (Protection) Act, 1986 has published the Environment Impact Assessment Notification, 2006 (hereinafter referred to as the EIA Notification, 2006) vide number S.O.1533 (E), dated the 14th September, 2006, for mandating prior Environmental Clearance (EC) for certain category of projects; And whereas, for the grant of prior EC, public hearing is mandatory and it is an integral part of the EC process, unless specifically exempted for certain activities as mentioned in the EIA Notification 2006, as amended from time to time....."

Therefore, after the long deliberations and discussions in the 416th SEAC Meeting, the SEAC has observed that the Public Hearing is mandatory for all mining projects of major mineral category irrespective of the area for ensuring the scientific & systematic mining and the conservation of major minerals, as per the provisions of the EIA Notification, 2006 as amended from time to time. Further, it is also noted that Public Hearing is a pre-requisite for the following mining projects: (i) If the proposal is a new


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one. (ii) If a major mineral project is being submitted for environmental clearance to MOEF for the first time for proposed production and or lease area.

Based on the impact of the above EIA Notifications and legal implications observed by the Hon'ble NGT Judgements, the SEAC has decided to direct the PP to conduct the Public Hearing (PH) as per the procedure prescribed in EIA Notification, 2006 and submit the minutes of the PH with action plan, for considering the application/proposal towards the grant of EC.

After the receipt of the minutes of the Public Hearing submitted by the PP along with a valid Mining Lease, and approved Mining Plan/Scheme of Mining including the PMCP/FMCP for the proposed mining operations, the SEAC may deliberate the future course of action.

Agenda No: 416 –TA - 08


(File No: 6532/2018)

Existing Limestone Quarry over an Extent of 0.58.5 Ha located at S.F.No.1100/9, 1101/8,1101/9,1101/10,1102/5C,1103/3A,3B(P)&1104, Thenmalai Village,Sivagiri Taluk, Tirunelveli District, Tamil Nadu by M/s. Renuka Chemicals– For Environmental Clearance under Violation Category.(SIA/TN/MIN/418647/2023, Dated. 16.02.2023)

Earlier, this proposal was placed in this 369th SEAC Meeting held on 20.04.2023. The details of the project furnished by the proponent are available on the PARIVESH web portal (parivesh.nic.in). The Project Proponent gave a detailed presentation.

The SEAC noted the following:

1. The Proponent M/s. Renuka Chemicals has applied for Environmental Clearance under Violation Category for the Existing Limestone Quarry over an Extent of 0.58.5 Ha located at S.F.No.1100/9, 1101/8, 1101/9, 1101/10, 1102/5C, 1103/3A, 3B(P) & 1104, Thenmalai Village, Sivagiri Taluk, Tirunelveli District, Tamil Nadu.
2. The project/activity is covered under Category “B” of Item 1(a) “Mining of Minerals Projects” of the Schedule to the EIA Notification, 2006, as amended.
3. ToR under violation issued by SEIAA-TN vide Lr.No. SEIAA-TN/F.No.6532/TOR- 402/2018 Dated: 16.05.2018.


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4. ToR Amendment was issued vide Lr. No. SEIAA-TN/F.No.6532/SEAC-CXVIII/TOR- 402(A)/2018 Dated: 30.07.2018.
5. ToR Extension under violation issued vide SEIAA. Lr.No. SEIAA-TN/F.No.6532/ToR- 402/A/2018, dated:29.10.2021.
6. ToR Extension under violation Lr. No.SEIAA-TN/F.No.6532/ToR-402/Extn./2018 dated:26.09.2022.
7. Public Hearing Exempted - As per MoEF & CC Notification Dt: 01.07.2016 & Office Memorandum – F.No.22-28/2020.IA.III Dated: 12.11.2020; Point No.5.
8. As per MMDR Amendment Act 2015 lease period is granted 19.01.1985 valid upto 30.06.2035.
9. Review of mining plan approved by IBM TN/TNL/LST/ ROMP -1631 MDS, Dt:30.12.2020 for the period 2020 -2021 to 2024 -2025.
10. Production 55394 Tonnes of ROM (High Grade Limestone 80% - 44315 Tonnes & Low-Grade Limestone 20% - 11079 Tonnes) & 10 Tonnes of Topsoil & 57122 Tonnes of Side Burden and depth of mining 46m.

Based on the presentation made and documents furnished by the project proponent, the SEAC decided to constitute a SUB COMMITTEE to make an on-site inspection to assess the present status of the project site and environmental settings as the proposal falls under violation category and submit the report along with the recommendations to the Committee.

Further the Committee called for the following additional details:

1. A letter from the Project Proponent justifying that the project activity is covered under Category “B2” of Item 1(a) “Mining of Minerals Projects” of the Schedule to the EIA Notification, 2006, as amended.
2. Valid mine plan approved by the competent authority for the proposed period of quarrying.
3. The PP shall furnish the copy of receipt of the penalty levied by the Dept of Geology and Mining for the exploitation of mineral without prior EC.

Meanwhile, the SEAC decided to constitute a sub-committee to make on-site inspection to assess the present status of the proposed project, environmental settings and to assess


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ecological damage assessment whether it is being carried out in accordance with CPCB Guidelines, remediation plan, natural resource augmentation and community resource augmentation.


After the receipt of the additional details from the proponent and the evaluation report by the Sub-committee, the SEAC will deliberate on the issue of Environmental Clearance under violation category. SEAC also decided to request SEIAA-TN to initiate action under Sec. 19 of the Environment (Protection) Act, to be taken for violation cases, in accordance with law.

Subsequently, the proposal was placed in the 616th Authority meeting held on 10.05.2023. The Authority decided to request the Member Secretary, SEIAA to communicate the SEAC minutes to the project proponent held on 20.04.2023.

The Sub Committee report was placed in 416th SEAC meeting held on 13.10.2023. The observations made in the field and recommendation derived on the basis of the field visit are as below:

Chronology

Sl. No	Sequence of events	Date
1	Date of EC Application with Online Proposal No. SIA/TN/MIN/62103/2017 (within Window Period) – Considered under Violation Category	28.01.2017
2	As per Gazette Notification S.O. 3977 (E) Dated 14.08.2018 Category B Project redirected to SEIAA - Date of TOR Application with Online Proposal No. SIA/TN/MIN/23120/2018	02.04.2018
3	TOR Meeting – 109 th held on	25.04.2018
4	Awarded TOR: SEIAA-TN/F.No.6532/TOR-402/2018	16.05.2018
5	Applied for ToR Extension SIA/TN/MIN/267735/2022	13.04.2022
6	Extension ToR Granted with PH: SEIAA-TN/F.No.6532/TOR-402/Extn/2018 Dated: 26.09.2022	26.09.2022
7	EC Application vide Online Proposal No.	19.04.2023


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SEAC- TN

	SIA/TN/MIN/418647/2023	
8	Deliberation in 369 th Meeting held on	20.04.2023
9	Recommended for Site Visit by Sub Committee	20.04.2023

Salient Features of the Project

Particulars	Details
Name of Project	Thenmalai Limestone Mines
Project Proponent	M/s. Renuga Chemicals
Location of mine	SF No. 1101/1B, 1101/3A, & 1101/6A, Thenmalai village, Sivagiri Taluk, Tirunelveli district
Category of Project	B1
Proposed Capacity per Annum	11,317 TPA ROM (Peak production)
Mine Lease Area	0.58.5 Ha
Life of Mine	6.5 years
Total Working Day/Year	300 days
Total Number of workers employed	17
Total Water Requirement & Source	2.5 KLD Source collected rain water & from water vendors
Latitude & Longitude	09° 19'40.85"N to 09°19'46.40"N 77°32'25.08"E to 77° 32'27.92"E
Topo Sheet number	58 G/11
Eco Sensitivity	Srivilliputhur Grizzled Squirrel wildlife Sanctuary, Notified Eco Sensitive Area (ESA) vide S.O. 4500(E) dated 13.12.2019, is located at a distance of 14.5 km in North west direction from the Lease. The shortest Eco Sensitive Zone (ESZ) of Srivilliputhur Grizzled Squirrel wildlife Sanctuary is 13.5 km in North west direction. There are no other Eco Sensitive Areas like National Parks, Wildlife Sanctuaries, Biosphere Reserves, Wildlife Corridors, Ramsar Sites,


MEMBER SECRETARY
SEAC -TN

156


CHAIRMAN
SEAC- TN

Particulars	Details
	Tiger/Elephant Reserves, Reserved Forests, etc. (existing as well as proposed) within 10 km from the Lease.
Type of Land	Patta Land
Method of Mining	Non – Conventional Opencast Method of Mining using Jackhammer drilling, Excavator for mining operation
Bench parameters	Height 4 meters & Width 6 m
Depth of Mining	41 m BGL
Dimension of the Pit -Ultimate	Pit – I = 158m (L) X 35m (W) X 46m (D)
Nearest railway station	Rajapalayam – 14 km - (North)
Nearest Highway	NH 208 – Kollam – Thirumangalam – 11.0km -West
Nearest air port	Madurai Airport at 82.0 km in North east
Seismic zone	Zone-II
Cost of the Project	Rs.16.60 Lakhs

Mining Lease Details

Sl. No.	ML Grant	ML Grant Reference	Validity		Remarks
			From	To	
1	Initial Grant	G.O. No. - 19 Industries, dated 09.01.1985	01.07.1985	30.06.1989	4 Years
2	First Renewal	G.O.M S. No. 554 Industries (MMD.II) Department, Dated 25.05.1990	01.07.1989	30.06.1999	10 Years
3	Second Renewal	Applied mine lease application to state government on	-	-	20 Years


MEMBER SECRETARY
SEAC -TN

157


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		27.06.1998			
4	MMDR (Amend) Act, 2015	-	26.03.2015	30.06.2035	

Mining Plan Details

Sl. No.	Mining Plan/Scheme	Plan Period	Approval vide IBM Letter Reference
1	Scheme of Mining	2015-16 to 2019 -20	(TN/TNL/LST/MS-1281-MDS, Dated: 18.12.2015)
2	Modified Mining plan	2017-18 to 2019-20	(TN/TNL/LST/MP-2028.MDS, dated: 07.06.2017)
3	Review of mining plan	2020-21 to 2024-25	(TN/TNL/LST/ROMP-1631.MDS, dated: 30.12.2020)

Details of Mining

Sl. No.	Particulars	Details
1	Method of mining	Non- Conventional Opencast Method of Mining (using jack hammer drilling, Controlled blasting and using Excavator)
2	Geological reserve	1,72,670 Tonnes of ROM
3	Mineable reserve available- As on 31.03.2020	71,525 Tonnes of ROM Recovery was 100% (80% high grade+20% low grade) limestone
4	Proposed production (Peak production)	11,317 tonnes ROM Recovery was 100% (80% high grade+20% low grade) limestone
5	Elevation range of the mine site	Top RL 134 m
6	Bench height	4.0m
7	Bench width	6 m
8	Bench slope	45° to 60° to vertical


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158


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9	Proposed Depth of mining	41m BGL
10	Life of mine	6.5 years

Past Production Details

Year	Proposal (Tonnes)			Actual (Tonnes)		
	Rom (Ts)	High grade Limestone @ 80% (Ts)	Low grade @ 20% (Ts)	Rom (Ts)	High Grade Limestone @ 80% (Ts)	Low grade Limestone @ 20% (Ts)
2017-18	6305	5044	1261	The mines stopped the mining operations from January 2017 as the lessee did not obtain the Environment Clearance from the Competent Authority. Copy of Notice of Temporary Discontinuance is enclosed as Annexure No XIII. Hence, the Actual Production was Nil.		
2018-19	7403	5922	1481			
2019-20	6705	5364	1341			
Total	20413	16330	4083			

Proposed Production Details

As per the Review of Mining Plan approved by Indian Bureau of Mines vide Letter No. Lr.No. TN/TNL/LST/ROMP-1631.MDS, dated: 30.12.2020, the proposed production is as follows.

Summary of yearwise [2020-21 to 2024-25]

Year	ROM(Ts)	High grade Limestone @ 80% (Ts)	Low Grade Limestone@ 20% (Ts)	Top Soil (Ts)	Side burden (Ts)	Ore waste ratio
2020-21	11151	8921	2230	6	18704	1;1.68
2021-22	10941	8753	2188	4	26718	1;2.44
2022-23	10858	8686	2172	-	7706	1;0.71
2023-24	11317	9053	2263	-	3994	1;0.35
2024-25	11128	8902	2226	-	-	1;0.00
Total	55394	44315	11079	10	57122	1;1.03

OBSERVATIONS OF THE SEAC SUB-COMMITTEE DURING THE PROJECT SITE INSPECTION


1. Sub Committee has visited Thenmalai Limestone Mine (F.No. 6532) during the Inspection to have over all mining scenario.
2. Lease area is extent of 0.58.5 Ha in SF No. 1101/1B, 1101/3A, & 1101/6A and is operated with two leases previously and third lease is obtained which is valid up to 30.06.2035 (As per Amended MMDR Act 2015).
3. Lease area is compeltely wire fenced in all side.
4. Nearest settlements/habitations are observed in 320 m along the southeast


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direction.

5. Nearest water bodies is 100m in the north and pond at 5 km northwest.
6. There was no mining activities in the lease area pit.
7. Rain water accumulated in the Pit and atleast 5 meters are covered in water, as noticed.
8. During Violation Period, Non – Conventional Opencast Method of Mining using Jackhammer drilling, Excavator for mining operation were carried out in the Lease.
9. There was no Top Soil and Over Burden generation during the Period and thus no waste dump in the Lease.
10. During violation period (from 15.01.2016 to 10.01.2017) around 1,500 Tonnes of Limestones has been mined and transported.
11. Penalty Amount of Rs 6,96,500/- (Six lakhs ninety six thousand and five hundred only) has been imposed as per the District collector Letter No 1/29423/2019-19 Dated 20.08.2019 which has not been paid by the Proponent. The mine owners had appealed in the Madurai Bench of Madras High court W.P. No. 24463/2018 for the violation cases to revised the penalty cost and is pending with Madurai bench of High court.
12. No Ground Water-table intersection as noticed in the existing benches of the lease area.
13. Statuary documents like Patta, FMB sketch, Village Map, Mining Lease G.O. copy, River of mining plan approval letter, HEMM Permission letter, Permission letter to Amalgamation, penalty letter from the District Collector are verified.
14. There are six mining lease got amalgamation total extent of the mining leases (6 leases) 10.96.0 Ha.
15. As per the committee recommendations, 500 trees per hectare and total number of trees would be around 6,600 trees will be planted by the proponent. Considering the 80% survival 5,480 trees are expected to grow.
16. Green Belt, common in the lease area, was developed along the periphery of Mine Pits including in Safety Barriers.
17. Garland Drains are not provided along the periphery.


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18. Green belt developed along the eastern side boundaries are infested with *Procopius juliflora* which are to be eradicated and additional green belt shall be developed.
19. Overall, the EIA report has predicted that the project will comply with all environment standards and legislation after commencement of the project and operational stage mitigation measures are implemented.
20. Re opening of this mining will meet the raw material requirement for the CAPTIVE cement plant
21. Direct and Indirect Employment opportunities will create due to this project
22. Sustainable and modern mining leads us to see positive impact of mining operation and providing employment for nearly 90 people directly.
23. The capital EMP cost for the proposed mining activity is Rs. 25,18,583/- and recurring EMP cost is Rs. 7,60,083/-.
24. The CSR activities will be carried to near Government school with a cost of Rs. 5.00 lakhs.
25. Project Cost is Rs.16.60 Lakhs.

PENALTY FOR VIOLATION

M/s. Renuga Chemicals has received Demand Notice from the District Collector, Tirunelveli for 100% cost of Mineral value of Limestone quantity of 1,500 Tonnes produced without EC vide Rc. No. M1/29423/2019-22 dated 20.08.2019 for Rs.6,96,500/-. M/s. Renuga Chemicals not remitted the amount to Department of Geology and Mining.

CONCLUSIONS & RECOMMENDATIONS:

As the Proposal falls in Low Level Ecological Damage and EMP measures were in place (collectively for Thenmalai Limestone Mine) during the Violation Period, the Sub-Committee is of the opinion that the Maximum Environmental Compensation of Rs.30,00,000/ as per the CPCB Guidelines shall be levied. Accordingly, the maximum Environmental Compensation for will be Rs.30,00,000/- which has to be compensated as follows :


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Sl. No.	Activity Proposed	Total (Rs.)
1	Cost of Ecological Damage Remediation Plan	12,00,000
2	Natural Resource Augmentation Plan	9,00,000
3	Community Resource Augmentation Plan	9,00,000
Grand Total		30,00,000

STATUTORY PROCEDURES TO BE FOLLOWED:

1. The Bank Guarantee for Rs. 30,00,000/- has to be given to TNPCB for successful implementation of the Schemes in 5 years period. The Bank Guarantee will be released after successful implementation of the Remediation Plan and Natural and Community Resource Augmentation Plan.
2. Credible Action under Section 19 of the E(P) Act shall also be complied for awarding the EC.

SEAC RECOMMENDATIONS

Even though the PP had submitted the Environmental Compension indicating the contribution towards to Ecological Damage Remediation Plan, Natural Resouse Augmentation and Community Resource Augmentation Plan for obtaining the EC under violation category, the SEAC has observed that the PP had not carried out the Public Hearing for the above proposal involving mining of major mineral, i.e., Limestone as all the major minerals are considered to be B1 Category vide MoEF OM 2013 {No. J-13012/12/2013-IA-11 (I)} - Categorization of Category 'B' projects/activities into Category 'B1' & 'B2', 24th December, 2013 which spells out

"The guidelines for categorization of Category 'B' projects/activities into Category 'B1' & 'B2' are applicable only to those projects/activities mentioned above. All the other Category 'B' projects/activities listed under the Schedule of EIA Notification, 2006 and its amendments shall be considered as Category 'B1' projects and appraised as per the procedure prescribed in the EIA Notification"

Further, it is pertinent to observe that the EIA Notification dated 14.09.2006 has been amended vide Notifications dated 15.01.2016, 20.01.2016, 01.07.2016 and later, the EIA Notification 2018, dated.14.08.2018 which comments on the 'Mining of Minerals'


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SEAC- TN

with the 'Category with Threshold limit' of "<50 ha \geq 5 ha of mining lease area" specified as 'B' Category in the EIA Notification, 2006 is replaced with "<100 ha of mining lease area in respect of non-coal mine lease". Here, the mining of mineral was classified into B1 & B2 categories stipulating the conditions as given below:

- (i) for project or activity of mining of minor minerals of Category 'B2' (up to 25 ha of mining lease area);
- (ii) for project or activity of mining of minor minerals of Category 'B1' in case of cluster of mining lease area; and

The NGT Order (O.A. No. 186/2016) titled as Satendra Pandey vs. MoEF&CC & Anr., vide order dated 13.09.2018 and relevant part of the order reads as under:-

"21. Dispensing with the requirement of Public Hearing which forms a part of the Public Consultation under Stage-III of the Environmental Clearance process under EIA Notification, 2006 for areas measuring 0 to 25 ha for individual mine areas and in cluster situation where public hearing has been provided, has resulted in gross dilution of EIA Notification dated 14th September, 2006...."

Accordingly, the MoEF & CC, vide its OM F.No. L-11011/175/2018-IA011 (M) dated. 12.12.2018, has inter-alia directed as follows:

"....(i) Providing for EIA, EMP and therefore, Public Consultation for all areas from 5 to 25 ha falling member Category B-2 at par with Category B-1 by SEAC/SEIAA as well as for cluster situation wherever it is not provided;...."

Now, it has been made clear that the Public Hearing is required to be conducted for the *areas measuring 5 to 25 ha for individual mine areas and also in cluster situation even in case of minor minerals.*

Hence, it has been established that the procedures stipulated for the appraisal of the projects involving the Mining of Minerals for obtaining the prior Environmental Clearance (or) Environmental Clearance under EIA Notification 2006 in consonance with EP Act 1986, are as follows:

Type of Mineral	B1		B2	
	Applicability	Obligatory	Applicability	Obligatory


MEMBER SECRETARY
SEAC-TN

163


CHAIRMAN
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Minor Minerals	for project or activity of mining of minor minerals (Individual Mine Lease) possessing the mining lease area of extent of 5 ha or more.	Form -I, PFR, DSR and Approved Mine Plan and EIA and EMP; Public Hearing.	for project or activity of mining of minor minerals possessing the mining lease area of extent less than 5 ha.	Comprehensive Form -1M, PFR, DSR and Approved Mine Plan and EMP.
Minor Minerals	for project or activity of mining of minor minerals in case of cluster of mining lease areas possessing the cumulative mining lease area of extent of 5 ha or more, as defined in EIA Notifications, S.O.141 (E), 15.01.2016 & S.O. 2269(E), 01.07.2016.	Form -I, PFR, DSR and Approved Mine Plan and EIA and EMP; Public Hearing.	for project or activity of mining of minor minerals in case of cluster of mining lease areas possessing the cumulative mining lease area of extent of less than or upto 5 ha, as defined in EIA Notifications, S.O.141 (E), 15.01.2016 & S.O. 2269(E), 01.07.2016.	Comprehensive Form -1M, PFR, DSR and Approved Mine Plan and One EMP for all leases in the Cluster.
Major Minerals	for project or activity of mining of minor minerals (Individual Mine Lease) (OR) in case of cluster of mining lease areas possessing	Form -I, PFR, DSR and Approved Mine Plan and EIA and EMP; Public Hearing.	It is well-known that there is no need of prior environmental	

	<p>the cumulative mining lease area of extent possessing the mining lease area of extent of ≤ 250 ha of mining lease area in respect of non-coal mine lease;</p> <p>Hence, vide amended Notifications S.O. 1886(E) dated 20.04.2022, it shall be dealt by the SEIAA/SEAC under the 'Category B';</p> <p>However, the EAC (MoEF & CC) will process the proposals of (i) >250 ha mining lease area in respect of major mineral mining lease other than coal; (ii) >500 ha of mining lease area in respect of coal mine lease.</p> <p>(iii) Asbestos mining irrespective of mining area.</p>		<p>clearance for the mining projects of major minerals of lease area less than 5 ha as per EIA Notification, 2006 either from the State Government or the Central Government till 15.01.2016.</p> <p>However, the EIA Notification S.O. 141, dated. 15.01.2016 with subsequent amendments has defined the scope for project or activity of mining of minor minerals only to be considered as Category 'B2' with area of extent less than 5 Ha. Further, the Mining of Major Minerals are treated under the Category of 'B1' as there is no Notification/OM/Circular issued by the Competent Authority describing the Category of Major Mineral possessing mining lease area of less than 5 Ha as 'B2'.</p>
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	under the 'Category A'.		
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Recently, the MoEF & CC vide its Notification S.O. 2163 (E) , dated. 09.05.2022 clearly states that

"....Whereas, the Central Government in the erstwhile Ministry of Environment and Forests, in exercise of its powers under sub-section (1) and clause (v) of sub-section (2) of section (3) of the Environment (Protection) Act, 1986 has published the Environment Impact Assessment Notification, 2006 (hereinafter referred to as the EIA Notification, 2006) vide number S.O.1533 (E), dated the 14th September, 2006, for mandating prior Environmental Clearance (EC) for certain category of projects; And whereas, for the grant of prior EC, public hearing is mandatory and it is an integral part of the EC process, unless specifically exempted for certain activities as mentioned in the EIA Notification 2006, as amended from time to time....."

Therefore, after the long deliberations and discussions in the 416th SEAC Meeting, the SEAC has observed that the Public Hearing is mandatory for all mining projects of major mineral category irrespective of the area for ensuring the scientific & systematic mining and the conservation of major minerals, as per the provisions of the EIA Notification, 2006 as amended from time to time. Further, it is also noted that Public Hearing is a pre-requisite for the following mining projects: (i) If the proposal is a new one. (ii) If a major mineral project is being submitted for environmental clearance to MOEF for the first time for proposed production and or lease area.

Based on the impact of the above EIA Notifications and legal implications observed by the Hon'ble NGT Judgements, the SEAC has decided to direct the PP to conduct the Public Hearing (PH) as per the procedure prescribed in EIA Notification, 2006 and submit the minutes of the PH with action plan, for considering the application/proposal towards the grant of EC.

After the receipt of the minutes of the Public Hearing submitted by the PP along with a valid Mining Lease, and approved Mining Plan/Scheme of Mining including the PMCP/FMCP for the proposed mining operations, the SEAC may deliberate the future course of action.


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Agenda No. 416 – TA – 09

(File No.6563/2023)

Existing Limestone Mine lease over an Extent of 4.08.5Ha in S.F.Nos.403/1A, 2, 3, 404/1, 2A, 2B1, 2B2, 2B3, 2B4, 405, 406/1, 2, 407/1A, 1B2/1, 1B2/2, 408/1A, 1B, 1C, 2, 3, 409/1, 2A & 2B of Abishekapatti Village of Tirunelveli Taluk, Tirunelveli District, Tamil Nadu by M/s. Sree Ganapathi Mines – For Environmental Clearance under violation category. (SIA/TN/MIN/419826/2023, dated: 24.02.2023)

The proposal was placed in the 369th SEAC Meeting held on 20.04.2023. The project proponent gave detailed presentation. The details of the project furnished by the proponent are available in the website (parivesh.nic.in). The SEAC noted the following:

1. The Proponent, M/s. Sree Ganapathi Mines, has applied for Environmental Clearance for the Existing Limestone Mine lease over an Extent of 4.08.5Ha in S.F.Nos.403/1A, 2, 3, 404/1, 2A, 2B1, 2B2, 2B3, 2B4, 405, 406/1, 2, 407/1A, 1B2/1, 1B2/2, 408/1A, 1B, 1C, 2, 3, 409/1, 2A & 2B at Abishekapatti Village of Tirunelveli Taluk, Tirunelveli District, Tamil Nadu.
2. The project/ activity is covered under Category “B” of Item 1(a) “Mining of Minerals Projects” of the Schedule to the EIA Notification, 2006.
3. TOR was issued vide LrNo.SEIAA-TN/F.No.6563/SEAC/ToR-331/2018 Dated: 10.05.2018.
4. Amendment to ToR vide T.O. No. SEIAA-TN/F-6563/SEAC-CXVIII/TOR-331(A)/2018 Dated: 30.07.2018.
5. Extension to TOR vide Lr.No.SEIAA-TN/F.No.6563/TOR-331/2018/A, dated: 29.10.2021.
6. Extension to TOR vide Lr.No.SEIAA-TN/F.No.6563/SEAC/TOR-331/2018/Extn, dated: 28.11.2022.
7. EIA Report was submitted on: 28.02.2023.
8. The proposal was placed in 369th SEAC meeting held on 20.04.2023. Based on the presentation made by the proponent, SEAC decided to call for additional details.

1. To revise the ecological damage assessment as per CPCB Guidelines.
2. Submit the details of the school to carry out CER activity.


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Meanwhile, the SEAC decided to constitute a sub-committee to make on-site inspection to assess the present status of the proposed project, environmental settings and to assess ecological damage assessment whether it is being carried out in accordance with CPCB Guidelines, remediation plan, natural resource augmentation and community resource augmentation.

1. After the receipt of the additional details from the proponent and the evaluation report by the Sub-committee, the SEAC will deliberate on the issue of Environmental Clearance under violation category. SEAC also decided to request SEIAA-TN to initiate action under Sec. 19 of the Environment (Protection) Act, to be taken for violation cases, in accordance with law.

Based on the presentation and details furnished by the project proponent, the SEAC decided constitute a sub-committee to make on-site inspection to assess the present status of the proposed project, environmental settings and to assess ecological damage assessment, remediation plan, natural resource augmentation and community resource augmentation.

Based on the above, The State Expert Appraisal Committee (SEAC) Tamil Nadu constituted a sub-committee vide its Lr.No.SEAC-TN/Tirunelveli/ Site Inspection/2023 Dated : 20.04.2023, to inspect and study the field condition for the proposal seeking EC for Mining of Limestone in an extent of 4.08.5Ha in S.F.Nos.403/1A, 2, 3, 404/1, 2A, 2B1, 2B2, 2B3, 2B4, 405, 406/1, 2, 407/1A, 1B2/1, 1B2/2, 408/1A, 1B, 1C, 2, 3, 409/1, 2A & 2B at Abishekapatti Village of Tirunelveli Taluk, Tirunelveli District. The Committee comprises of Dr. G. ANNE JOSEPHINE SELVAM, Member SEAC – TN & Dr. B. GOWTHAM, Member SEAC – TN.

The Sub Committee report was placed in 416th SEAC meeting held on 13.10.2023. The observations made in the field and recommendation derived on the basis of the field visit are as below:


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Sl. No	Sequence of events	Date
1	Date of TOR Application with Online Proposal No. SIA/TN/MIN/23061/2018 (within Window Period) – Considered under Violation Category	03.04.2018
2	TOR Meeting – 109 th held on	25.04.2018
3	Awarded TOR: SEIAA-TN/F.No.6263/TOR-331/2018	10.05.2018
4	Applied for ToR Extension SIA/TN/MIN/208739/2021	10.04.2021
5	Applied for ToR Extension SIA/TN/MIN/268711/2022	20.04.2022
6	Extension ToR Granted: SEIAA-TN/F.No.6563/SEAC/TOR-331/2018/Extn Dated: 28.11.2022,	28.11.2022
7	EC Application vide Online Proposal No. SIA/TN/MIN/419826/2023	24.02.2023
8	Deliberation in 369 th Meeting held on	20.04.2023
9	Recommended for Site Visit by Sub Committee	20.04.2023

Salient Features of the Project

Particulars	Details
Name of Project	Abishekapatti Limestone Mine under CGM Prog. RC. No. 9713/MM4/99
Project Proponent	Thiru. N. Ganesa Raja
Location of mine	Abishekapatti village, Tirunelveli Taluk and District SF No. 403/1A, 2, 404/1, 405, 406/1,2, 407/1A, 408/1A, 1B, 1C, 409/1, etc.,
Category of Project	B1
Proposed Capacity per Annum	33,020 TPA ROM (Peak production)
Mine Lease Area	4.08.5 Ha
Life of Mine	5 years
Total Working Day/Year	240 days
Total Number of workers employed	20


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Particulars	Details
Total Water Requirement & Source	1.0 KLD Source collected rain water & from water vendors
Latitude & Longitude	08° 47' 19.99" N to 08° 47' 27.70" N & 77° 39' 07.00" E to 77° 39'15.78" E
Topo Sheet number	58 – H/09
Eco Sensitivity	Gangaikondan Spotted deer Sanctuary, Notified Eco Sensitive Area (ESA) vide S.O. 4500(E) dated 13.12.2019, is located at a distance of 11 km in South east direction from the Lease. The shortest Eco Sensitive Zone (ESZ) of Vettangudi Bird Sanctuary is 10 km in South East direction. There are no other Eco Sensitive Areas like National Parks, Wildlife Sanctuaries, Biosphere Reserves, Wildlife Corridors, Ramsar Sites, Tiger/Elephant Reserves, Reserved Forests, etc. (existing as well as proposed) within 10 km from the Lease.
Type of Land	Patta Land
Method of Mining	Non – Conventional Opencast Method of Mining using Jackhammer drilling, Excavator for mining operation
Bench parameters	Height 4 meters & Width 6 m
Depth of Mining	29 m BGL (1m Topsoil + 28m Limestone)
Dimension of the Pit -Ultimate	Pit – 182m (L) X 127m (W) X 29m (D)
Nearest railway station	Tirunelveli – 11 km - (South East)
Nearest Highway	NH 7 – Madurai – Tirunelveli – 8.5km - East
Nearest air port	Tuticorin Airport at 56 km in East
Seismic zone	Zone-II
Cost of the Project	Rs.23.80 Lakhs

Mining Lease Details

Sl. No.	ML Grant	ML Grant Reference	Validity		Remarks
			From	To	
1	Initial Grant	CGM Prog. RC. No. 9713/MM4/99 Dated: 29.04.2002	10.06.2002	09.06.2022	20 Years
2	MMDR (Amend) Act, 2015	-	10.06.2022	09.06.2052	

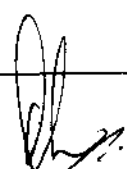
Mining Plan Details

Sl. No.	Mining Plan/Scheme	Plan Period	Approval vide IBM Letter Reference
1	Mining Plan	2002-03 to 2006-07	TN/TNL/MP/LST-1415.MDS, dated 18.03.2002
2	1 st Scheme of Mining	2007-08 to 2011-12	TN/TNL/LST/MS-432.MDS, dated 09.03.2007
3	2 nd Scheme of Mining	2012-13 to 2016-17	TN/TNL/LST/MS-701.MDS, dated 27.07.2012
4	Review of mining plan	2017-18 to 2021-22	TN/TNL/ROMP-1405-.MDS, dated: 16.03.2017
5	Review of mining plan	2022-23 to 2026-27	TN/TNL/LST/ROMP-1684-.MDS, dated: 24.12.2021

Details of Mining

Sl. No.	Particulars	Details
1	Method of mining	Non- Conventional Opencast Method of Mining (using jack hammer drilling. Controlled blasting and using Excavator)
2	Geological reserve	2,28,124 Tonnes of ROM 1,82,499 Tonnes of Limestone @ 80% Recovery



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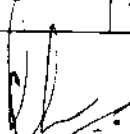

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3	Mineable reserve available- As on 20.12.2019	1,59,110 Tonnes of ROM 1,27,288 Tonnes of Limestone @ 80% Recovery
4	Proposed production (Peak production)	1,59,110 Tonnes of ROM 1,27,288 Tonnes of Limestone @ 80% Recovery
5	Elevation range of the mine site	Top RL 87 m
6	Bench height	4.0m
7	Bench width	6 m
8	Bench slope	45° to 60° to vertical
9	Proposed Depth of mining	29 m BGL
10	Life of mine	5 years

Past Production Details

Plan	Recovery % of Limestone	Year	Production Details			
			Proposal in tonnes		Actual in tonnes	
			ROM	Limestone	ROM	Limestone
Mining Plan	Proposed 70% Recovery and Achieved 60% Recovery	2002-03	11437	8006	3950	2370
		2003-04	11389	7972	5200	3120
		2004-05	11700	8190	3733	2240
		2005-06	11389	7972	2950	1770
		2006-07	11700	8190	2467	1480
First Scheme of Mining	60% Recovery	2007-08	3250	1950	2500	1500
		2008-09	3250	1950	2250	1350
		2009-10	3250	1950	2666	1600
		2010-11	3250	1950	2917	1751
		2011-12	3250	1950	2133	1280
Second	Proposed	2012-13	12776	7665	13421	9395


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Scheme of Mining	60% Recovery and Achieved 70% Recovery	2013-14	16380	9828	16500	11550
		2014-15	12792	7675	21560	15092
		2015-16	11856	7114	8193	5735
		2016-17	12480	7488	5407	3785
Review of Mining	Proposed 60% Recovery and Achieved 70% Recovery	2017-18	0	0	0	0
		2018-19	0	0	0	0
		2019-20	0	0	0	0
		2020-21	0	0	0	0
		2021-22	0	0	0	0
Total			140149	89850	95847	64018

Proposed Production Details

As per the Review of Mining Plan approved by Indian Bureau of Mines vide Letter No. Lr.No. TN/TNL/LST/ROMP-1684.MDS, Dated: 24.12.2021, the proposed production is as follows.

Year	Pit No.	Total Tentative Excavation [Ts]	ROM		Side Burden [Ts]	Total Waste [Ts]	ROM / Waste Ratio
			Ore [Limestone @ 80% recovery] [Ts]	Mineral Reject 20% [Ts]			
1	2	3	4	5	6	7	8
2022-23	1	32505	26004	6501	20394	0	1:1.03
2023-24		33020	26416	6604	17992	0	1:0.93
2024-		30888	24710	6178	18044	0	1:0.98

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25							
2025-26		31392	25114	6278	40518	2494	1:1.86
2026-27		31304	25043	6261	1091	0	1:0.28
Total		159110	127288	31822	97968	2494	1:1.02


Ecological Damage Assessment

Other than operating the Mine without required EC after 15.01.2016, and one more violation observed that the mine was operated without CTO there Thiru. N. Ganesa Raja received the Demand Notice from the District Collector, for 100% cost of Mineral value of Limestone quantity produced i.e.2,900 Tonnes without EC vide Rc. No. M1/29423/2019-5 dated 20.08.2019 for Rs.13,84,000/-. Thiru. N. Ganesa Raja has Not remitted the amount to Department of Geology and Mining

OBSERVATIONS OF THE SEAC SUB-COMMITTEE DURING THE PROJECT SITE INSPECTION

1. Sub Committee has visited Thenmalai Limestone Mine (F.No. 6563) during the Inspection to have over all mining scenario.
2. Lease area is extent of 4.08.5 Ha in SF No. 403/1A, 2, 404/1, 405, 406/1,2, 407/1A, 408/1A, 1B, 1C, 409/1 and is operated with two leases previously and third lease is obtained which is valid up to 30.06.2035 (As per Amended MMDR Act 2015).
3. Lease area is compeltely wire fenced in all side.
4. Nearest settlements/habitations are observed in 770 m along the north direction.
5. Nearest town, Tirunelveli is situated at 10 km.
6. There was no mining activities in the lease area pit.
7. Rain water accumulated in the Pit and atleast 5 meters are covered in water, as noticed.
8. During Violation Period, Non – Conventional Opencast Method of Mining using Jackhammer drilling, Excavator for mining operation were carried out in the Lease.
9. There was no Top Soil and Over Burden generation during the Period and thus


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no waste dump in the Lease.

10. During violation period (from 15.01.2016 to 10.01.2017) around 2,900 Tonnes of Limestones has been mined and transported.
11. Penalty Amount of Rs 13,84,000/- (Thirteen lakhs and eighty four thousand only) has been imposed as per the District collector Letter No 1/29423/2019-19 Dated 20.08.2019 which has not been paid by the Proponent. The mine owners had appealed in the Madurai Bench of Madras High court W.P. No. 24463/2018 for the violation cases to revised the penalty cost and is pending with Madurai bench of High court.
12. No Ground Water-table intersection as noticed in the existing benches of the lease area.
13. Statuary documents like Patta, FMB sketch, Village Map, Mining Lease G.O. copy, River of mining plan approval letter, HEMM Permission letter, Permission letter to Amalgamation, penalty letter from the District Collector are verified.
14. There are six mining lease got amalgamation total extent of the mining leases (6 leases) 10.96.0 Ha.
15. As per the committee recommendations, 500 trees per hectare and total number of trees would be around 2460 trees will be planted by the proponent. Considering the 80% survival 2050 trees are expected to grow.
16. Green Belt, common in the lease area, was developed along the periphery of Mine Pits including in Safety Barriers.
17. Garland Drains are not provided along the periphery.
18. Green belt developed along the eastern side boundaries are infested with *Procopius juliflora* which are to be eradicated and additional green belt shall be developed.
19. Overall, the EIA report has predicted that the project will comply with all environment standards and legislation after commencement of the project and operational stage mitigation measures are implemented.
20. Re opening of this mining will meet the raw material requirement for the CAPTIVE cement plant
21. Direct and Indirect Employment opportunities will create due to this project

22. Sustainable and modern mining leads us to see positive impact of mining operation and providing employment for nearly 90 people directly.

23. The capital EMP cost for the proposed mining activity is Rs. 43,13,699/- and recurring EMP cost is Rs. 16,43,906/-.

24. The CSR activities will be carried to near Government school with a cost of Rs. 5.00 lakhs.

25. Project Cost is Rs.23,79,500/-.

CONCLUSIONS & RECOMMENDATIONS:

As the Proposal falls in Low Level Ecological Damage and EMP measures were in place (collectively for Thenmalai Limestone Mine) during the Violation Period, the Sub-Committee is of the opinion that the Maximum Environmental Compensation of Rs.30,00,000/- as per the CPCB Guidelines shall be levied. Accordingly, the maximum Environmental Compensation for will be Rs.30,00,000/- which has to be compensated as follows :


Sl. No.	Activity Proposed	Total (Rs.)
1	Cost of Ecological Damage Remediation Plan	12,00,000
2	Natural Resource Augmentation Plan	9,00,000
3	Community Resource Augmentation Plan	9,00,000
Grand Total		30,00,000

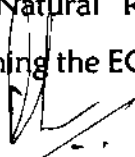
STATUTORY PROCEDURES TO BE FOLLOWED:

1. The Bank Guarantee for Rs. 30,00,000/- has to be given to TNPCB for successful implementation of the Schemes in 5 years period. The Bank Guarantee will be released after successful implementation of the Remediation Plan and Natural and Community Resource Augmentation Plan.
2. Credible Action under Section 19 of the E(P) Act shall also be complied for awarding the EC.

SEAC RECOMMENDATIONS

Even though the PP had submitted the Environmental Compension indicating the contribution towards to Ecological Damage Remediation Plan, Natural Resouse Augmentation and Community Resource Augmentation Plan for obtaining the EC under


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violation category, the SEAC has observed that the PP had not carried out the Public Hearing for the above proposal involving mining of major mineral, i.e., Limestone as all the major minerals are considered to be B1 Category, based on MoEF OM 2013 {No. J-13012/12/2013-IA-II (I)} - Categorization of Category 'B' projects/activities into Category 'B1' & 'B2', 24th December, 2013 which spells out

"The guidelines for categorization of Category 'B' projects/activities into Category 'B1' & 'B2' are applicable only to those projects/activities mentioned above. All the other Category 'B' projects/activities listed under the Schedule of EIA Notification, 2006 and its amendments shall be considered as Category 'B1' projects and appraised as per the procedure prescribed in the EIA Notification"

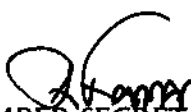
Further, it is pertinent to observe that the EIA Notification dated 14.09.2006 has been amended vide Notifications dated 15.01.2016, 20.01.2016, 01.07.2016 and later, the EIA Notification 2018, dated.14.08.2018 which comments on the 'Mining of Minerals' with the 'Category with Threshold limit' of "<50 ha \geq 5 ha of mining lease area" specified as 'B' Category in the EIA Notification, 2006 is replaced with "<100 ha of mining lease area in respect of non-coal mine lease". Here, the mining of mineral was classified into B1 & B2 categories stipulating the conditions as given below:

- (i) for project or activity of mining of minor minerals of Category 'B2' (up to 25 ha of mining lease area);
- (ii) for project or activity of mining of minor minerals of Category 'B1' in case of cluster of mining lease area; and

The NGT Order (O.A. No. 186/2016) titled as Satendra Pandey vs. MoEF&CC & Anr., vide order dated 13.09.2018 and relevant part of the order reads as under:-

"21. Dispensing with the requirement of Public Hearing which forms a part of the Public Consultation under Stage-III of the Environmental Clearance process under EIA Notification, 2006 for areas measuring 0 to 25 ha for individual mine areas and in cluster situation where public hearing has been provided, has resulted in gross dilution of EIA Notification dated 14th September, 2006...."

Accordingly, the MoEF & CC, vide its OM F.No. L-11011/175/2018-IA0II (M) dated. 12.12.2018, has inter-alia directed as follows:


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"....(i) Providing for EIA, EMP and therefore, Public Consultation for all areas from 5 to 25 ha falling member Category B-2 at par with Category B-1 by SEAC/SEIAA as well as for cluster situation wherever it is not provided;....

Now, it has been made clear that the Public Hearing is required to be conducted for the *areas measuring 5 to 25 ha for individual mine areas and also in cluster situation even in case of minor minerals.*

Hence, it has been established that the procedures stipulated for the appraisal of the projects involving the Mining of Minerals for obtaining the prior Environmental Clearance (or) Environmental Clearance under EIA Notification 2006 in consonance with EP Act 1986, are as follows:

Type of Mineral	B1		B2	
	Applicability	Obligatory	Applicability	Obligatory
Minor Minerals	<i>for project or activity of mining of minor minerals (Individual Mine Lease) possessing the mining lease area of extent of 5 ha or more.</i>	<i>Form -I, PFR, DSR and Approved Mine Plan and EIA and EMP; Public Hearing.</i>	<i>for project or activity of mining of minor minerals possessing the mining lease area of extent less than 5 ha.</i>	<i>Comprehensive Form -1M, PFR, DSR and Approved Mine Plan and EMP.</i>
Minor Minerals	<i>for project or activity of mining of minor minerals in case of cluster of mining lease areas possessing the cumulative mining lease area of extent of 5 ha or more, as defined in EIA</i>	<i>Form -I, PFR, DSR and Approved Mine Plan and EIA and EMP; Public Hearing.</i>	<i>for project or activity of mining of minor minerals in case of cluster of mining lease areas possessing the cumulative mining lease area of extent of less than or upto 5 ha,</i>	<i>Comprehensive Form -1M, PFR, DSR and Approved Mine Plan and One EMP for all leases in the Cluster.</i>


	<p>Notifications, S.O.141 (E), 15.01.2016 & S.O. 2269(E), 01.07.2016.</p>		<p>as defined in EIA Notifications, S.O.141 (E), 15.01.2016 & S.O. 2269(E), 01.07.2016.</p>	
Major Minerals	<p>for project or activity of mining of minor minerals (Individual Mine Lease) (OR) in case of cluster of mining lease areas possessing the cumulative mining lease area of extent possessing the mining lease area of extent of ≤ 250 ha of mining lease area in respect of non- coal mine lease; Hence, vide amended Notifications S.O. 1886(E) dated 20.04.2022, it shall be dealt by the SEIAA/SEAC under the 'Category B'; However, the EAC (MoEF & CC) will</p>	<p>Form -I, PFR, DSR and Approved Mine Plan and EIA and EMP; Public Hearing.</p>	<p>It is well-known that there is no need of prior environmental clearance for the mining projects of major minerals of lease area less than 5 ha as per EIA Notification, 2006 either from the State Government or the Central Government till 15.01.2016. However, the EIA Notification S.O. 141, dated. 15.01.2016 with subsequent amendments has defined the scope for project or activity of mining of minor minerals only to be considered as Category 'B2' with area of extent less than 5 Ha. Further, the Mining of Major Minerals are treated under the Category of 'B1' as there is no</p>	

process the proposals of (i) >250 ha mining lease area in respect of major mineral mining lease other than coal; (ii) >500 ha of mining lease area in respect of coal mine lease. (iii) Asbestos mining irrespective of mining area, under the 'Category A'.	Notification/OM/Circular issued by the Competent Authority describing the Category of Major Mineral possessing mining lease area of less than 5 Ha as 'B2'.
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Recently, the MoEF & CC vide its Notification S.O. 2163 (E) , dated. 09.05.2022 clearly states that

"....Whereas, the Central Government in the erstwhile Ministry of Environment and Forests, in exercise of its powers under sub-section (1) and clause (v) of sub-section (2) of section (3) of the Environment (Protection) Act, 1986 has published the Environment Impact Assessment Notification, 2006 (hereinafter referred to as the EIA Notification, 2006) vide number S.O.1533 (E), dated the 14th September, 2006, for mandating prior Environmental Clearance (EC) for certain category of projects; And whereas, for the grant of prior EC, public hearing is mandatory and it is an integral part of the EC process, unless specifically exempted for certain activities as mentioned in the EIA Notification 2006, as amended from time to time....."

Therefore, after the long deliberations and discussions in the 416th SEAC Meeting, the SEAC has observed that the Public Hearing is mandatory for all mining projects of major mineral category irrespective of the area for ensuring the scientific & systematic



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SEAC- TN

mining and the conservation of major minerals, as per the provisions of the EIA Notification, 2006 as amended from time to time. Further, it is also noted that Public Hearing is a pre-requisite for the following mining projects: (i) If the proposal is a new one. (ii) If a major mineral project is being submitted for environmental clearance to MOEF for the first time for proposed production and or lease area.

Based on the impact of the above EIA Notifications and legal implications observed by the Hon'ble NGT Judgements, the SEAC has decided to direct the PP to conduct the Public Hearing (PH) as per the procedure prescribed in EIA Notification, 2006 and submit the minutes of the PH with action plan, for considering the application/proposal towards the grant of EC.

After the receipt of the minutes of the Public Hearing submitted by the PP along with a valid Mining Lease, and approved Mining Plan/Scheme of Mining including the PMCP/FMCP for the proposed mining operations, the SEAC may deliberate the future course of action.


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ANNEXURE-I

SPECIAL MITIGATION MEASURES FOR THE QUARRIES LOCATED WITHIN 1 KM FROM THE RESERVE FORESTS

1. Since the R.F is located very close to the proposed quarry site, the PP shall develop Green Belt (Thick Tree plantation in two to three rows) along the boundary of the mine lease area before obtaining the CTO from the TNPCB.
2. The proponent shall construct and maintain proper fencing all around the boundary of the proposed working quarry adjacent to the direction of the location of the Reserved Forest before the commencement of the operation and shall furnish the photographs showing the same before obtaining the CTO from TNPCB.
3. The PP shall take steps so that the overburden, waste rock, rejects and fines generated during the mining operations shall be stored in separate dumps positioned in opposite direction to the location of the reserved forest.
4. The PP shall ensure that such waste/reject dumps shall be properly secured to prevent escape of material there from in harmful quantities which may cause degradation of environment and to prevent causation of floods.
5. The PP shall select the site for dumps on impervious ground to ensure minimum leaching effects due to precipitations.
6. The PP shall take necessary steps that wherever possible, the waste rock, overburden etc. shall be back-filled into the mine excavations with a view to restoring the land to its original use as far as possible.
7. Wherever back-filling of waste rock in the area excavated during mining operations is not feasible, the PP shall take adequate steps in discussion with the concerned DFO to suitably terrace the waste dumps ensuring the stability through vegetation to consolidate the green belt development in the areas adjacent to the reserved forest location.
8. The PP shall carry out the scientific investigations in order to keep the ground and noise vibrations caused by blasting operations and movement of HEMM such as Excavators, Trucks within safe limit.

9. The PP shall not perform secondary breakage involving the drilling & blasting in the quarrying operations and it can be replaced with non-conventional methods such as noise-controlled rock breakers, usage of non-explosive expansive materials/chemicals, Hydraulic Splitting based on the suitable scientific studies carried out by any reputed scientific and academic institutions.
10. The PP shall take adequate steps to control the air pollution due to fines, dust, smoke or gaseous emissions during the quarrying operations within 'Permissible Limits' specified under the environmental laws.
11. The Quarrying and Mining activities shall be restricted in the Eco-sensitive Zone of 60 m from the boundary of the Reserved area and hence the PP shall not even indulge in constructing the haul roads in these areas.
12. No development on existing steep hill slopes or slopes with a high degree of erosion shall be permitted. Hence, the PP shall not carry out the quarrying on steep hill slopes with a gradient of 20° or more or areas with a high degree of erosion on forestland.
13. The PP shall give an affidavit at the time of lease execution that there will be no felling of trees (or) any encroachment will not be made on these Reserved Forest lands and also within the Eco- sensitive Zone of 60 m without the prior permission of the State Government in case of reserve forest land as per the procedures laid down by the State Government.
14. The PP shall not use plastic carry bags within the quarry area.
15. The PP shall ensure that all the haul roads within the quarry lease shall be provided with adequate number of road side drains and these drains shall be kept free from blockage for runoff disposals. This run off from the road side drainage shall relate to the natural drainage system in the area.
16. The PP shall adhere to the provisions of the MoEF had issued Notification No. S.O. 1545 dated 25th June 2009 regulating certain activities in the eco-sensitive zone to conserve and protect the reserved forest area from ecological and environmental point of view.


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GRAVEL / RED EARTH & PEBBLES QUARRY – GENERAL CONDITIONS

1. The proponent shall mandatorily appoint the statutory competent persons and commence the quarry operations within the purview of Mines Act 1952.
2. The proponent shall erect fencing all around the boundary of the proposed area with gates for entry/exit before the commencement of the operation and shall furnish the photographs/map showing the same before obtaining the CTO from TNPCB.
3. Perennial maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required in connection with the concerned Govt. Authority.
4. The Project Proponent shall adhere to the working parameters of mining plan which was submitted at the time of EC appraisal wherein year-wise plan was mentioned for total excavation. No change in basic mining proposal shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change, which entail adverse environmental impacts, even if it is a part of approved mining plan modified after grant of EC or granted by State Govt. in the form of Short-Term Permit (STP), Query license or any other name.
5. Perennial sprinkling arrangement shall be in place on the haulage road for fugitive dust suppression. Fugitive emission measurements should be carried out during the mining operation at regular intervals.
6. The Proponent shall ensure that the noise level is monitored during mining operation at the project site for all the machineries deployed and adequate noise level reduction measures undertaken accordingly.
7. Proper barriers to reduce noise level and dust pollution should be established by providing greenbelt along the boundary of the quarrying site and suitable working methodology to be adopted by considering the wind direction.


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SEAC- TN

8. The purpose of green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics.
9. Taller/one year old saplings raised in appropriate size of bags (preferably eco-friendly bags) should be planted in proper spacing as per the advice of local forest authorities/botanist/horticulturist with regard to site specific choices. The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner.
10. **Noise and Vibration Related:** (i) Appropriate measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs/muffs, (iii) Noise levels should be monitored regularly (on weekly basis) near the major sources of noise generation within the core zone.
11. The operation of the quarry should not affect the agricultural activities & water bodies near the project site and a 50 m safety distance from water body should be maintained without carrying any activity. The proponent shall take appropriate measures for "Silt Management" and prepare a SOP for periodical de-siltation indicating the possible silt content and size in case of any agricultural land exists around the quarry.
12. The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.
13. The proponent shall ensure that the transportation of the quarried granite stones shall not cause any hindrance to the Village people/Existing Village Road and shall take adequate safety precautionary measures while the vehicles are passing through the schools / hospital. The Project Proponent shall ensure that the road may not be damaged due to transportation of the quarried granite stones; and transport of granite stones will be as per IRC Guidelines with respect to complying with traffic congestion and density.

14. To ensure safety measures along the boundary of the quarry site, security guards are to be posted during the entire period of the mining operation.
15. The Project Proponent shall comply with the provisions of the Mines Rules 1955 for ensuring safety, health and welfare of the people working in the mines and the surrounding habitants.
16. The project proponent shall ensure that the provisions of the MMDR Act, 1957, the MCDR 2017 and Tamilnadu Minor Mineral Concession Rules 1959 are complied by carrying out the quarrying operations in a skillful, scientific and systematic manner keeping in view proper safety of the labour, structure and the public and public works located in that vicinity of the quarrying area and in a manner to preserve the environment and ecology of the area.
17. The quarrying activity shall be stopped if the entire quantity indicated in the Mining plan is quarried even before the expiry of the quarry lease period and the same shall be informed to the District AD/DD (Geology and Mining) District Environmental Engineer (TNPCB) by the proponent without fail.
18. The Project Proponent shall abide by the annual production scheduled specified in the approved mining plan and if any deviation is observed, it will render the Project Proponent liable for legal action in accordance with Environment and Mining Laws.
19. Prior clearance from Forestry & Wild Life including clearance from committee of the National Board for Wildlife as applicable shall be obtained before starting the quarrying operation, if the project site attracts the NBWL clearance, as per the existing law from time to time.
20. All the conditions imposed by the Assistant/Deputy Director, Geology & Mining, concerned District in the mining plan approval letter and the Precise area communication letter issued by concerned District Collector should be strictly followed.
21. That the grant of this E.C. is issued from the environmental angle only, and does not absolve the project proponent from the other statutory

obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility, to comply with the conditions laid down in all other laws for the time-being in force, rests with the project proponent.

22. The mining lease holders shall, after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc.

23. As per the MoEF& CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere EMP furnished.



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ROUGH STONE/JELLY/BLUE METAL QUARRY

- 1) The PP shall inform send the 'Notice of Opening' of the quarry to the Director of Mines Safety, Chennai Region before obtaining the CTO from the TNPCB.
- 2) The Project Proponent shall abide by the annual production scheduled specified in the approved mining plan and if any deviation is observed, it will render the Project Proponent liable for legal action in accordance with Environment and Mining Laws.
- 3) The proponent shall appoint the statutory competent persons relevant to the proposed quarry size as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961, as amended from time to time.
- 4) Within a period one month from the execution of lease deed, the PP shall ensure that the persons deployed in the quarry including all the contractual employees/truck drivers shall undergo initial/periodical training in the DGMS approved GVTC situated in Trichy / Salem / Hosur.
- 5) The PP shall construct a garland drain of size, gradient and length around the proposed quarry incorporating garland canal, silt traps, siltation pond and outflow channel connecting to a natural drain should be provided prior to the commencement of mining. Garland drain, silt-traps, siltation ponds and outflow channel should be de-silted periodically and geo-tagged photographs of the process should be included in the HYCR.
- 6) Monitoring of drainage water should be carried out at different seasons by an NABL accredited lab and clear water should only be discharged into the natural stream. Geo-tagged photographs of the drainage and sampling site should be submitted along with HYCR.
- 7) The proponent shall install the 'S3 (or) G2' type of fencing all around the boundary of the proposed working quarry with gates for entry/exit before the commencement of the operation as recommended in the DGMS Circular, 11/1959 and shall furnish the photographs showing the same before obtaining the CTO from TNPCB.
- 8) The Proponent shall submit a conceptual 'Slope Stability Action Plan' incorporating the benches & accessible haul road approved by the concerned

AD (Mines) for the proposed quarry to the DEE/TNPCB at the time of obtaining the CTO.

- 9) The PP shall ensure that the persons employed in the quarry whether permanent, temporary or contractual are undergoing the initial/periodical medical examination in the DGMS approved OHS Clinics/Hospitals as per the DGMS Circular No. 01 of 2011 before they are engaged in mining activities.
- 10) The PP shall ensure that the persons employed in the quarry whether permanent, temporary or contractual are provided with adequate PPEs before engaged in mining operations.
- 11) The PP shall meticulously carry out the mitigation measures as spelt out in the approved EMP.
- 12) Proper barriers to reduce noise level and dust pollution should be established by providing greenbelt along the boundary of the quarrying site and suitable working methodology should be adopted by considering the wind direction.
- 13) The Project Proponent shall ensure that the funds earmarked for environmental protection measures are kept in a separate bank account and should not be diverted for other purposes. Year-wise expenditure should be included in the HYCR.
- 14) The Project Proponent shall send a copy of the EC to the concerned Panchayat/local body.
- 15) Perennial maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required, in coordination with the concerned Govt. Authority.
- 16) Perennial sprinkling arrangements shall be in place on the haulage road for fugitive dust suppression. Fugitive emission measurements should be carried out during the mining operation at regular intervals and submit the consolidated report to TNPCB once in six months.
- 17) The Proponent shall ensure that the noise level is monitored during mining operation at the project site for all the machineries deployed and adequate noise level reduction measures are undertaken accordingly. The report on the periodic monitoring shall be included in the HYCR.

- 18) Proper barriers to reduce noise level and dust pollution should be established by providing greenbelt along the boundary of the quarrying site and suitable working methodology to be adopted by considering the wind direction.
- 19) The purpose of green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the appendix. The plant species with dense/moderate canopy of native origin should be chosen. Species of small/medium/tall trees alternating with shrubs should be planted in a mixed manner.
- 20) Taller/one year old saplings raised in appropriate size of bags (preferably eco-friendly bags) should be planted in proper spacing as per the advice of local forest authorities/botanist/horticulturist with regard to site specific choices. The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner.
- 21) **Noise and Vibration Related:** (i) Appropriate measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs/muffs, (ii) Noise levels should be monitored regularly (on weekly basis) near the major sources of noise generation within the core zone.
- 22) The PP shall carry out maximum of only one round of controlled blast per day, restricted to the maximum of 30 to 40 number of holes per round with maintaining maximum charge per delay in such a manner that the blast-induced ground vibration level (Peak Particle Velocity) measured in the houses/structures located at a distance of 500 m shall not exceed 2.0 mm/s and no fly rock shall travel beyond 20 m from the site of blasting.
- 23) The PP shall also ensure that the blasting operations are not carried out on a 'day after day' basis and a minimum 24 hours break should be observed between blasting days to reduce the environmental impacts effectively.

- 24) If 'Deep-hole large diameter drilling and blasting' is required, then the PP shall obtain special permission from DGMS.
- 25) The PP shall ensure that the blasting operations shall be carried out during a prescribed time interval with a prior notice to the habitations situated around the proposed quarry after having posted the sentries/guards adequately to confirm the non-exposure of public within the danger zone of 500 m from the boundary of the quarry. The PP shall use the jack hammer drill machine fitted with the dust extractor for the drilling operations such that the fugitive dust is controlled effectively at the source.
- 26) The PP shall ensure that the blasting operations are carried out by the blaster/Mine Mate/Mine Foreman employed by him in accordance with the provisions of MMR 1961 and it shall not be carried out by the persons other than the above statutory personnel.
- 27) The proponent shall undertake in a phased manner restoration, reclamation and rehabilitation of lands affected by the quarrying operations and shall complete this work before the conclusion of such operations as per the Environmental Management Plan & the approved Mine Closure Plan.
- 28) Ground water quality monitoring should be conducted once in every six months and the report should be submitted to TNPCB.
- 29) The operation of the quarry should not affect the agricultural activities & water bodies near the project site and a 50 m safety distance from water body should be maintained without carrying any activity. The proponent shall take appropriate measures for "Silt Management" and prepare a SOP for periodical de-siltation indicating the possible silt content and size in case of any agricultural land exists around the quarry.
- 30) The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.
- 31) The proponent shall ensure that the transportation of the quarried granite stones shall not cause any hindrance to the Village people/Existing Village Road and shall take adequate safety precautionary measures while the vehicles are passing through the schools / hospital. The Project Proponent

shall ensure that the road may not be damaged due to transportation of the quarried granite stones; and transport of granite stones will be as per IRC Guidelines with respect to complying with traffic congestion and density.

32) To ensure safety measures along the boundary of the quarry site, security guards are to be posted during the entire period of the mining operation.

33) The Project Proponent shall comply with the provisions of the Mines Act, 1952, MMR 1961 and Mines Rules 1955 for ensuring safety, health and welfare of the people working in the mines and the surrounding habitants.

34) The project proponent shall ensure that the provisions of the MMDR Act, 1957 & the MCDR 2017 and Tamilnadu Minor Mineral Concession Rules 1959 are complied by carrying out the quarrying operations in a skillful, scientific and systematic manner keeping in view proper safety of the labour, structure and the public and public works located in that vicinity of the quarrying area and in a manner to preserve the environment and ecology of the area.

35) The quarrying activity shall be stopped if the entire quantity indicated in the Mining plan is quarried even before the expiry of the quarry lease period and the same shall be informed to the District AD/DD (Geology and Mining) District Environmental Engineer (TNPCB) and the Director of Mines Safety (DMS), Chennai Region by the proponent without fail.

36) The Project Proponent shall abide by the annual production scheduled specified in the approved mining plan and if any deviation is observed, it will render the Project Proponent liable for legal action in accordance with Environment and Mining Laws.

37) All the conditions imposed by the Assistant/Deputy Director, Geology & Mining, concerned District in the mining plan approval letter and the Precise area communication letter issued by concerned District Collector should be strictly followed.


38) That the grant of this E.C. is issued from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole

and complete responsibility, to comply with the conditions laid down in all other laws for the time-being in force, rests with the project proponent.

39) As per the directions contained in the OM F.No.22-34/2018-IA.III dated 16th January 2020 issued by MoEFCC, the Project Proponent shall, undertake re-grassing the mining area and any other area which may have been disturbed due to his mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. The compliance of this direction shall be included in the Half Yearly Compliance Report which will be monitored by SEAC at regular intervals.

40) The mining lease holders shall, after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc.

41) As per the MoEF&CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere to the EMP as committed.


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SPECIAL MITIGATION MEASURES FOR THE QUARRIES LOCATED IN CLOSE PROXIMITY TO THE WINDMILLS

Sl. No	Existing (or) Virgin Quarry	
	Wind Mills located at a distance of 150 m to 300 m	Wind Mills located beyond 300 m Up to 500 m
1.	Appointment of I/II Class Mines Manager Certificate of Competency under MMR 1961.	Appointment of I/II Class Mines Manager Certificate of Competency under MMR 1961.
2.	Special precautions are to be taken during blasting within danger zone such as posting guards, etc.	Blast design parameters should be mentioned in mining plan/scheme. and may be reviewed by a competent mining engineer.
3.	Blast design parameters should be mentioned in mining plan/scheme.	MCPD and total charge should be fixed such that it should not exceed 1.3 kg and 26.50 kg respectively.
4.	The recommendations of scientific organisation need to be incorporated in the mining plan/scheme before its approval.	Fresh scientific study may be conducted if mine management wants to increase the MCPD and total explosive charge above the quantity of 1.30 kg and 26.50 kg respectively. Continuous monitoring using seismograph should also be done in such cases by the mine management.
5.	Engagement of blasting in-charge having Diploma/Degree in mining engineering for day-to-day blasting.	Engagement of blasting in-charge having Diploma/Degree in mining engineering for day-to-day blasting.
6.	Training of the blasting crew on controlled blasting practices before engaged in operation.	Training of the blasting crew on controlled blasting practices before engaged in operation.

7.	Submission of monthly report on blast design pattern and detailed explosive consumption as well as volume of rock excavation to a statutory body viz. DGMS, DMG, PESO or SPCB.	Submission of monthly report on blast design pattern and detailed explosive consumption as well as volume of rock excavation to a statutory body viz. DGMS, DMG, SPCB. Report of recorded ground vibration need to be added in monthly report.
8.	Report of recorded ground vibration need to be added in monthly report which shall be sent to all the statutory body viz. DGMS, DMG, SPCB.	Report of recorded ground vibration need to be added in monthly report which shall be sent to all the statutory body viz. DGMS, DMG, SPCB.
9.	Small diameter emulsion cartridge of 25 mm diameter (125 gm weight per cartridge) shall be used. However, ANFO explosives may also be used as main explosive charge.	Small diameter emulsion cartridge of 25 mm diameter (125 gm weight per cartridge) shall be used. However, ANFO explosives may also be used as main explosive charge.
10.	Electronic (or) Non-electric detonators (Nonel) shall be used in all the blasts for in-hole explosive initiation and surface hole-to-hole firing.	Non-electric detonators (Nonel) shall be used in all the blasts for in-hole explosive initiation and surface hole-to-hole firing.
11.	Max. number of holes in a round: 30.	Max. number of holes in a round: 40 to 60.


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TERMS OF REFERENCE (ToR) FOR GRANITE / ROUGH STONE QUARRY

1. In the case of existing/operating mines, a letter obtained from the concerned AD (Mines) shall be submitted and it shall include the following:
 - (i) Original pit dimension
 - (ii) Quantity achieved Vs EC Approved Quantity
 - (iii) Balance Quantity as per Mineable Reserve calculated.
 - (iv) Mined out Depth as on date Vs EC Permitted depth
 - (v) Details of illegal/illicit mining
 - (vi) Violation in the quarry during the past working.
 - (vii) Quantity of material mined out outside the mine lease area
 - (viii) Condition of Safety zone/benches
 - (ix) Revised/Modified Mining Plan showing the benches of not exceeding 6 m height and ultimate depth of not exceeding 50m.
2. Details of habitations around the proposed mining area and latest VAO certificate regarding the location of habitations within 300m radius from the periphery of the site.
3. The proponent is requested to carry out a survey and enumerate on the structures located within the radius of (i) 50 m, (ii) 100 m, (iii) 200 m and (iv) 300 m (v) 500m shall be enumerated with details such as dwelling houses with number of occupants, whether it belongs to the owner (or) not, places of worship, industries, factories, sheds, etc with indicating the owner of the building, nature of construction, age of the building, number of residents, their profession and income, etc.
4. The PP shall submit a detailed hydrological report indicating the impact of proposed quarrying operations on the waterbodies like lake, water tanks, etc are located within 1 km of the proposed quarry.
5. The Proponent shall carry out Bio diversity study through reputed Institution and the same shall be included in EIA Report.
6. The DFO letter stating that the proximity distance of Reserve Forests, Protected Areas, Sanctuaries, Tiger reserve etc., up to a radius of 25 km from the proposed site.

7. In the case of proposed lease in an existing (or old) quarry where the benches are not formed (or) partially formed as per the approved Mining Plan, the Project Proponent (PP) shall the PP shall carry out the scientific studies to assess the slope stability of the working benches to be constructed and existing quarry wall, by involving any one of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg. Surathkal, and Anna University Chennai-CEG Campus. The PP shall submit a copy of the aforesaid report indicating the stability status of the quarry wall and possible mitigation measures during the time of appraisal for obtaining the EC.
8. However, in case of the fresh/virgin quarries, the Proponent shall submit a conceptual 'Slope Stability Plan' for the proposed quarry during the appraisal while obtaining the EC, when the depth of the working is extended beyond 30 m below ground level.
9. The PP shall furnish the affidavit stating that the blasting operation in the proposed quarry is carried out by the statutory competent person as per the MMR 1961 such as blaster, mining mate, mine foreman, II/I Class mines manager appointed by the proponent.
10. The PP shall present a conceptual design for carrying out only controlled blasting operation involving line drilling and muffle blasting in the proposed quarry such that the blast-induced ground vibrations are controlled as well as no fly rock travel beyond 30 m from the blast site.
11. The EIA Coordinators shall obtain and furnish the details of quarry/quarries operated by the proponent in the past, either in the same location or elsewhere in the State with video and photographic evidences.
12. If the proponent has already carried out the mining activity in the proposed mining lease area after 15.01.2016, then the proponent shall furnish the following details from AD/DD, mines,
13. What was the period of the operation and stoppage of the earlier mines with last work permit issued by the AD/DD mines?

14. Quantity of minerals mined out.
- Highest production achieved in any one year
 - Detail of approved depth of mining.
 - Actual depth of the mining achieved earlier.
 - Name of the person already mined in that leases area.
 - If EC and CTO already obtained, the copy of the same shall be submitted.
 - Whether the mining was carried out as per the approved mine plan (or EC if issued) with stipulated benches.
15. All corner coordinates of the mine lease area, superimposed on a High-Resolution Imagery/Topo sheet, topographic sheet, geomorphology, lithology and geology of the mining lease area should be provided. Such an Imagery of the proposed area should clearly show the land use and other ecological features of the study area (core and buffer zone).
16. The PP shall carry out Drone video survey covering the cluster, green belt, fencing, etc.,
17. The proponent shall furnish photographs of adequate fencing, green belt along the periphery including replantation of existing trees & safety distance between the adjacent quarries & water bodies nearby provided as per the approved mining plan.
18. The Project Proponent shall provide the details of mineral reserves and mineable reserves, planned production capacity, proposed working methodology with justifications, the anticipated impacts of the mining operations on the surrounding environment, and the remedial measures for the same.
19. The Project Proponent shall provide the Organization chart indicating the appointment of various statutory officials and other competent persons to be appointed as per the provisions of the Mines Act'1952 and the MMR, 1961 for carrying out the quarrying operations scientifically and systematically in order to ensure safety and to protect the environment.

20. The Project Proponent shall conduct the hydro-geological study considering the contour map of the water table detailing the number of groundwater pumping & open wells, and surface water bodies such as rivers, tanks, canals, ponds, etc. within 1 km (radius) along with the collected water level data for both monsoon and non-monsoon seasons from the PWD / TWAD so as to assess the impacts on the wells due to mining activity. Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided.
21. The proponent shall furnish the baseline data for the environmental and ecological parameters with regard to surface water/ground water quality, air quality, soil quality & flora/fauna including traffic/vehicular movement study.
22. The Proponent shall carry out the Cumulative impact study due to mining operations carried out in the quarry specifically with reference to the specific environment in terms of soil health, biodiversity, air pollution, water pollution, climate change and flood control & health impacts. Accordingly, the Environment Management plan should be prepared keeping the concerned quarry and the surrounding habitations in the mind.
23. Rain water harvesting management with recharging details along with water balance (both monsoon & non-monsoon) be submitted.
24. Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary, national park, migratory routes of fauna, water bodies, human settlements and other ecological features should be indicated. Land use plan of the mine lease area should be prepared to encompass preoperational, operational and post operational phases and submitted. Impact, if any, of change of land use should be given.
25. Details of the land for storage of Overburden/Waste Dumps (or) Rejects outside the mine lease, such as extent of land area, distance from mine lease, its land use, R&R issues, if any, should be provided.

26. Proximity to Areas declared as 'Critically Polluted' (or) the Project areas which attracts the court restrictions for mining operations, should also be indicated and where so required, clearance certifications from the prescribed Authorities, such as the TNPCB (or) Dept. of Geology and Mining should be secured and furnished to the effect that the proposed mining activities could be considered.
27. Description of water conservation measures proposed to be adopted in the Project should be given. Details of rainwater harvesting proposed in the Project, if any, should be provided.
28. Impact on local transport infrastructure due to the Project should be indicated.
29. A tree survey study shall be carried out (nos., name of the species, age, diameter etc.) both within the mining lease applied area & 300m buffer zone and its management during mining activity.
30. A detailed mine closure plan for the proposed project shall be included in EIA/EMP report which should be site-specific.
31. As a part of the study of flora and fauna around the vicinity of the proposed site, the EIA coordinator shall strive to educate the local students on the importance of preserving local flora and fauna by involving them in the study, wherever possible.
32. The purpose of Green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the appendix-I in consultation with the DFO, State Agriculture University. The plant species with dense/moderate canopy of native origin should be chosen. Species of small/medium/tall trees alternating with shrubs should be planted in a mixed manner.
33. Taller/one year old Saplings raised in appropriate size of bags, preferably ecofriendly bags should be planted as per the advice of local forest authorities/botanist/Horticulturist with regard to site specific choices. The proponent shall earmark the greenbelt area with GPS coordinates all along

the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner

34. A Disaster management Plan shall be prepared and included in the EIA/EMP Report for the complete life of the proposed quarry (or) till the end of the lease period.
35. A Risk Assessment and management Plan shall be prepared and included in the EIA/EMP Report for the complete life of the proposed quarry (or) till the end of the lease period.
36. Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelt out in detail. Details of pre-placement medical examination and periodical medical examination schedules should be incorporated in the EMP. The project specific occupational health mitigation measures with required facilities proposed in the mining area may be detailed.
37. Public health implications of the Project and related activities for the population in the impact zone should be systematically evaluated and the proposed remedial measures should be detailed along with budgetary allocations.
38. The Socio-economic studies should be carried out within a 5 km buffer zone from the mining activity. Measures of socio-economic significance and influence to the local community proposed to be provided by the Project Proponent should be indicated. As far as possible, quantitative dimensions may be given with time frames for implementation.
39. Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.
40. Benefits of the Project if the Project is implemented should be spelt out. The benefits of the Project shall clearly indicate environmental, social, economic, employment potential, etc.
41. If any quarrying operations were carried out in the proposed quarrying site for which now the EC is sought, the Project Proponent shall furnish the detailed compliance to EC conditions given in the previous EC with the site photographs which shall duly be certified by MoEF&CC, Regional Office, Chennai (or) the concerned DEE/TNPCB.
42. The PP shall prepare the EMP for the entire life of mine and also furnish the sworn affidavit stating to abide the EMP for the entire life of mine.
43. Concealing any factual information or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this Terms of Conditions besides attracting penal provisions in the Environment (Protection) Act, 1986.

Annexure II

Standard Environmental Clearance Conditions prescribed by MoEF&CC for Construction Projects.

1. Statutory Compliance:

1. The project proponent shall obtain all necessary clearance/ permission from all relevant agencies including town planning authority before commencement of work. All the construction shall be done in accordance with the local building byelaws.
2. The approval of the Competent Authority shall be obtained for structural safety of buildings due to earthquakes, adequacy of firefighting equipment etc as per National Building Code including protection measures from lightning etc.
3. The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project.
4. The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
5. The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State Pollution Control Board/ Committee.
6. The project proponent shall obtain the necessary permission for drawing of ground water / surface water required for the project from the competent authority.
7. A certificate of adequacy of available power from the agency supplying power to the project along with the load allowed for the project should be obtained.
8. All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department and Civil Aviation Department shall be obtained, as applicable, by project proponents from the respective competent authorities.

9. The provisions of the Solid Waste (Management) Rules, 2016, e-Waste (Management) Rules, 2016, and the Plastics Waste (Management) Rules, 2016 shall be followed.

10. The project proponent shall follow the ECBC/ECBC-R prescribed by Bureau of Energy Efficiency, Ministry of Power strictly.

2. Air quality monitoring and preservation:

1. Notification GSR 94(E) dated 25.01.2018 of MoEF&CC regarding Mandatory Implementation of Dust Mitigation Measures for Construction and Demolition Activities for projects requiring Environmental Clearance shall be complied with.

2. A management plan shall be drawn up and implemented to contain the current exceedance in ambient air quality at the site.

3. The project proponent shall install a system to carry out Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g., PM10 and PM25) covering upwind and downwind directions during the construction period.

4. Construction site shall be adequately barricaded before the construction begins. Dust, smoke & other air pollution prevention measures shall be provided for the building as well as the site. These measures shall include screens for the building under construction, continuous dust/ wind breaking walls all around the site (at least 3-meter height). Plastic/tarpaulin sheet covers shall be provided for vehicles bringing in sand, cement, murram and other construction materials prone to causing dust pollution at the site as well as taking out debris from the site.

5. Sand, murram, loose soil, cement, stored on site should be covered adequately so as to prevent dust pollution.

6. Wet jet shall be provided for grinding and stone cutting.

7. Unpaved surfaces and loose soil should be adequately sprinkled with water to suppress dust.

8. All construction and demolition debris shall be stored at the site (and not dumped on the roads or open spaces outside) before they are properly

disposed. All demolition and construction waste shall be managed as per the provisions of the Construction and Demolition Waste Rules 2016.

9. The diesel generator sets to be used during construction phase shall be low Sulphur diesel type and shall conform to Environmental (Protection) prescribed for air and noise mission standards.
10. The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution. The location of the DG set and exhaust pipe height shall be as per the provisions of the Central Pollution Control Board (CPCB) norms.
11. For indoor air quality the ventilation provisions as per National Building Code of India.

3. Water Quality Monitoring and Preservation:

1. The natural drain system should be maintained for ensuring unrestricted flow of water. No construction shall be allowed to obstruct the natural drainage through the site, on wetland and water bodies. Check dams, bio-swaes, landscape, and other sustainable urban drainage systems (SUDS) are allowed for maintaining the drainage pattern and to harvest rainwater.
2. Buildings shall be designed to follow the natural topography as much as possible. Minimum cutting and filling should be done.
3. Total freshwater use shall not exceed the proposed requirement as provided in the project details.
4. The quantity of freshwater usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF&CC along with Half Yearly Compliance Reports (HYCR).
5. A certificate shall be obtained from the local body supplying water, specifying the total annual water availability with the local authority, the quantity of water already committed, the quantity of water allotted to the project under consideration and the balance water available. This should be

specified separately for ground water and surface water sources, ensuring that there is no impact on other users.

6. At least 20% of the open spaces as required by the local building byelaws shall be pervious. Use of Grass pavers, paver blocks with at least 50% opening, landscape etc. would be considered as pervious surface.
7. Installation of dual pipe plumbing for supplying fresh water for drinking, cooking and bathing etc and other for supply of recycled water for flushing, landscape irrigation car washing, thermal cooling, conditioning etc. shall be done.
8. Use of water saving devices/ fixtures (viz. low flow flushing systems; use of low flow faucets tap aerators etc) for water conservation shall be incorporated in the building plan.
9. Use of water saving devices/ fixtures (viz. low flow flushing systems; use of low flow faucets tap aerators etc) for water conservation shall be incorporated in the building plan.
10. Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.
11. The local bye-law provisions on rainwater harvesting should be followed. If local byelaw provision is not available, adequate provision for storage and recharge should be followed as per the Ministry of Urban Development Model Building Byelaws, 2016. Rainwater harvesting recharge pits/storage tanks shall be provided for ground water recharging as per the CGWB norms.
12. A rainwater harvesting plan needs to be designed where the recharge bores of minimum one recharge bore per 5,000 square meters of built-up area and storage capacity of minimum one day of total freshwater requirement shall be provided. In areas where ground water recharging is not feasible, the rainwater should be harvested and stored for reuse. The ground water shall not be withdrawn without approval from the Competent Authority.
13. All recharges should be limited to shallow aquifer.
14. No ground water shall be used during construction phase of the project.

15. Any ground water dewatering should be properly managed and shall conform to the approvals and the guidelines of the CGWA in the matter. Formal approval shall be taken from the CGWA for any ground water abstraction or dewatering.
16. The quantity of freshwater usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF&CC along with Half Yearly Compliance Reports (HYCR).
17. Sewage shall be treated in the STP with tertiary treatment. The treated effluent from STP shall be recycled/re-used for flushing, AC make up water and gardening. As proposed, not related water shall be disposed into municipal drain.
18. No sewage or untreated effluent water would be discharged through storm water drains.
19. Onsite sewage treatment of capacity of treating 100% wastewater to be installed. The installation of the Sewage Treatment Plant (STP) shall be certified by an independent expert and a report in this regard shall be submitted to the Ministry before the project is commissioned for operation. Treated wastewater shall be reused on site for landscape, flushing, cooling tower, and other end-uses. Excess treated water shall be discharged as per statutory norms notified by Ministry of Environment, Forest and Climate Change. Natural treatment systems shall be promoted.
20. Periodical monitoring of water quality of treated sewage shall be conducted. Necessary measures should be taken to mitigate the odor problem from STP.
21. Sludge from the onsite sewage treatment, including septic tanks, shall be collected, conveyed and disposed as per the Ministry of Urban Development, Centre Public Health and Environmental Engineering Organization (CPHEEO) Manual on Sewerage and Sewage Treatment Systems, 2013.

4. Noise Monitoring and Prevention:

1. Ambient noise levels shall conform to residential area/commercial area/industrial area/silence zone both during day and night as per Noise Pollution (Control and Regulation) Rules, 2000. Incremental pollution loads on the ambient air and noise quality shall be closely monitored during construction phase. Adequate measures shall be made to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards by CPCB / SPCB.
2. Noise level survey shall be carried out as per the prescribed guidelines and report in this regard shall be submitted to Regional Officer of the Ministry as a part of Half Yearly Compliance Report (HYCR).
3. Acoustic enclosures for DG sets, noise barriers for ground-run bays, ear plugs for operating personnel shall be implemented as mitigation measures for noise impact due to ground sources.

5. Energy Conservation Measures:

1. Compliance with the Energy Conservation Building Code (ECBC) of Bureau of Energy Efficiency shall be ensured. Buildings in the States which have notified their own ECBC, shall comply with the State ECBC.
2. Outdoor and common area lighting shall be LED.
3. The proponent shall provide solar panels covering a minimum of 50% of terrace area as committed.
4. Concept of passive solar design that minimize energy consumption in buildings by using design elements, such as building orientation, landscaping, efficient building envelope, appropriate fenestration, increased day lighting design and thermal mass etc. shall be incorporated in the building design. Wall, window, and roof u-values shall be as per ECBC specifications.
5. Energy conservation measures like installation of CFLs/ LED for the lighting the area outside the building should be integral part of the project design and should be in place before project commissioning.

6. Solar, wind or other Renewable Energy shall be installed to meet electricity generation equivalent to 1% of the demand load or as per the state level/ local building byelaws requirement, whichever is higher.
7. Solar power shall be used for lighting in the apartment to reduce the power load on grid. Separate electric meter shall be installed for solar power. Solar water heating shall be provided to meet 20% of the hot water demand of the commercial and institutional building or as per the requirement of the local building byelaws, whichever is higher. Residential buildings are also recommended to meet its hot water demand from solar water heaters, as far as possible.

6. Waste Management:

1. A certificate from the competent authority handling municipal solid wastes, indicating the existing civic capacities of handling and their adequacy to cater to the M.S.W. generated from project shall be obtained.
2. Disposal of muck during construction phase shall not create any adverse effect on the neighbouring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.
3. Separate wet and dry bins must be provided in each unit and at the ground level for facilitating segregation of waste. Solid waste shall be segregated into wet garbage and inert materials.
4. Organic waste compost/ Vermiculture pit/ Organic Waste Converter within the premises with a minimum capacity of 0.3 kg /person/day must be installed.
5. All non-biodegradable waste shall be handed over to authorized recyclers for which a written tie up must be done with the authorized recyclers.
6. Any hazardous waste generated during construction phase shall be disposed of as per applicable rules and norms with necessary approvals of the State Pollution Control Board.
7. Use of environmentally friendly materials in bricks, blocks and other construction materials, shall be required for at least 20% of the construction

material quantity. These include Fly Ash bricks, hollow bricks, AACs, Fly Ash Lime Gypsum blocks, Compressed earth blocks, and other environmentally friendly materials.

8. Fly ash should be used as building material in the construction as per the provision of Fly Ash Notification of September 1999 and amended from time to time. Ready mixed concrete must be used in building construction.
9. Any wastes from construction and demolition activities related thereto shall be managed to strictly conform to the Construction and Demolition Rules, 2016.
10. Used CFLs and TFLs should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/ rules of the regulatory authority to avoid mercury contamination.

7. Green Cover:

1. No tree can be felled/transplant unless exigencies demand. Where absolutely necessary, tree felling shall be with prior permission from the concerned regulatory authority. Old trees should be retained based on girth and age regulations as may be prescribed by the Forest Department. Plantations to be ensured species (cut) to species (planted).
2. A minimum of 1 tree for every 80 sqm of land should be planted and maintained. The existing trees will be counted for this purpose. The landscape planning should include plantation of native species. The species with heavy foliage, broad leaves and wide canopy cover are desirable. Water intensive and/or invasive species should not be used for landscaping.
3. Where the trees need to be cut with prior permission from the concerned local authority, compensatory plantation in the ratio of 1:10 (i.e. planting of 10 trees for every 1 tree that is cut) shall be done and maintained. Plantations to be ensured species (cut) to species (planted). Area for green belt development shall be provided as per the details provided in the project document.
4. Topsoil should be stripped to a depth of 20 cm from the areas proposed for buildings, roads, paved areas, and external services. It should be stockpiled

appropriately in designated areas and reapplied during plantation of the proposed vegetation on site.

5. A wide range of indigenous plant species should be planted as given in the Appendix-I, in consultation with the Government Forest/Horticulture Departments and State Agriculture University.

8. Transport:

1. A comprehensive mobility plan, as per MoUD best practices guidelines (URDPFI), shall be prepared to include motorized, non-motorized, public, and private networks. Road should be designed with due consideration for environment, and safety of users. The road system can be designed with these basic criteria.
 - a. Hierarchy of roads with proper segregation of vehicular and pedestrian traffic.
 - b. Traffic calming measures.
 - c. Proper design of entry and exit points.
 - d. Parking norms as per local regulation.
2. Vehicles hired to bring construction material to the site should be in good condition and should have a pollution check certificate and should conform to applicable air and noise emission standards be operated only during non-peak hours.
3. A detailed traffic management and traffic decongestion plan shall be drawn up to ensure that the current level of service of the roads within a 05 kms radius of the project is maintained and improved upon after the implementation of the project. This plan should be based on cumulative impact of all development and increased habitation being carried out or proposed to be carried out by the project or other agencies in this 05 Kms radius of the site in different scenarios of space and time and the traffic management plan shall be duly validated and certified by the State Urban Development department and the P.W.D./ competent authority for road augmentation and shall also have their consent to the implementation of

components of the plan which involve the participation of these departments.

9. Human Health Issues:

1. All workers working at the construction site and involved in loading, unloading, carriage of construction material and construction debris or working in any area with dust pollution shall be provided with dust mask.
2. For indoor air quality the ventilation provisions as per National Building Code of India.
3. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
4. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
5. Occupational health surveillance of the workers shall be done on a regular basis.
6. A First Aid Room shall be provided in the project both during construction and operations of the project.

10. Corporate Environment Responsibility:

1. The PP shall complete the CER activities, as committed, before obtaining CTE.
2. The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be

submitted to the MoEF&CC as a part of Half Yearly Compliance Report (HYCR).

3. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.
4. Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Half Yearly Compliance Report (HYCR).

11. Miscellaneous:

1. The project proponent shall prominently advertise it at least in two local newspapers of the District or State, of which one shall be in Tamil language within seven days indicating that the project has been accorded environment clearance and the details of MoEFCC/SEIAA website where it is displayed.
2. The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn must display the same for 30 days from the date of receipt.
3. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
4. The project proponent shall submit Half Yearly Compliance Reports (HYCR) on the status of the compliance of the stipulated environmental conditions on the website of the Ministry of Environment, Forest and Climate Change at environment clearance portal.
5. The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as

prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.

6. The project proponent shall inform the Authority (SEIAA) of the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.
7. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
8. The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report and also during their presentation to the State Expert Appraisal Committee.
9. No further expansion or modifications to the plant shall be carried out without prior approval of the Authority (SEIAA).
10. Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
11. The Authority (SEIAA) may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
12. The Authority reserves the right to stipulate additional conditions if found necessary. The Company in a time-bound manner shall implement these conditions.
13. The Regional Office of the MoEF&CC Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.
14. The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.

Appendix -I
List of Native Trees Suggested for Planting

No	Scientific Name	Tamil Name	Tamil Name
1	<i>Aegle marmelos</i>	Vilvam	வில்வம்
2	<i>Adenaanthera pavonina</i>	Manjadi	மஞ்சாடி, ஆனைக்குன்றிமணி
3	<i>Albizia lebbek</i>	Vaagai	வாகை
4	<i>Albizia amara</i>	Usil	உசில்
5	<i>Bauhinia purpurea</i>	Mantharai	மந்தாரை
6	<i>Bauhinia racemosa</i>	Aathi	ஆத்தி
7	<i>Bauhinia tomentosa</i>	Iruvathi	இருவாத்தி
8	<i>Buchanania axillaris</i>	Kattuma	காடுமா
9	<i>Borassus flabellifer</i>	Panai	பனை
10	<i>Butea monosperma</i>	Murukkamaram	முருக்கமரம்
11	<i>Bobax ceiba</i>	Ilavu, Sevvilavu	இலை
12	<i>Calophyllum inophyllum</i>	Punnai	புன்னை
13	<i>Cassia fistula</i>	Sarakondrai	சரக்கொன்றை
14	<i>Cassia roxburghii</i>	Sengondrai	செங்கொன்றை
15	<i>Chloroxylon swietenia</i>	Purasamaram	புரசு மரம்
16	<i>Cochlospermum religiosum</i>	Kongu, Manjallavu	கோங்கு, மஞ்சள் இலை
17	<i>Cordia dichotoma</i>	Naruvuli	நருவுளி
18	<i>Creteva adansoni</i>	Mavalingum	மாவிலங்கம்
19	<i>Dillenia indica</i>	Uva, Uzha	உசா
20	<i>Dillenia pentagyna</i>	SiruUva, Sitruzha	சிறு உசா
21	<i>Diospyro sebanum</i>	Karungali	கருங்காளி
22	<i>Diospyro schloroxylon</i>	Vaganai	வாகை
23	<i>Ficus amplissima</i>	Kallichi	கல் இச்சி
24	<i>Hibiscus tiliaceou</i>	Aatrupoovarasu	ஆற்றப்புவரசு
25	<i>Hardwickia binata</i>	Aacha	ஆச்சா
26	<i>Holoptelia integrifolia</i>	Aayili	ஆயா மரம், ஆயிலி
27	<i>Lannea coromandelica</i>	Odhiam	ஒதியம்
28	<i>Lagerstroemia speciosa</i>	Poo Marudim	பூ மருதி
29	<i>Lepisanthus tetraphylla</i>	Neikottaimaram	நெய் கொட்டை மரம்
30	<i>Limonia acidissima</i>	Vila maram	வில்லா மரம்
31	<i>Litsea glutinos</i>	Pisimpattai	பிசிம்பட்டை
32	<i>Madhuca longifolia</i>	Illuppai	இலுப்பை
33	<i>Manilkara hexandra</i>	UlakkaiPaalai	உலக்கை பாலை
34	<i>Mimusops elengi</i>	Magizhamaram	மகிழ்மரம்
35	<i>Mitragyna parvifolia</i>	Kadambu	கடம்பு
36	<i>Morinda pubescens</i>	Nuna	நுனா
37	<i>Morinda citrifolia</i>	Vellai Nuna	வெள்ளை நுனா
38	<i>Phoenix sylvestre</i>	Eachai	நச்சமரம்
39	<i>Pongamia pinnat</i>	Pungam	புங்கம்

40	<i>Premna mollissima</i>	Munnai	முன்னை
41	<i>Premna serratifolia</i>	Narumunnai	நறு முன்னை
42	<i>Premna tomentosa</i>	Malaipoovarasu	மலை பூஞ்சை
43	<i>Prosopis cinerea</i>	Vanni maram	வன்னி மரம்
44	<i>Pterocarpus marsupium</i>	Vengai	வேங்கை
45	<i>Pterospermum canescens</i>	Vennangu, Tada	வெண்ணாங்கு
46	<i>Pterospermum xylocarpum</i>	Polavu	புலவு
47	<i>Putranjiva roxburghii</i>	Karipala	கறிபாலா
48	<i>Salvadora persica</i>	Ugaa Maram	ஊகா மரம்
49	<i>Sapindus emarginatus</i>	Manipungan, Soapukai	மணிப்புங்கன் சோப்புக்காய்
50	<i>Saraca asoca</i>	Asoca	அசோகா
51	<i>Streblus asper</i>	Piray maram	பிராய் மரம்
52	<i>Strychnos nuxdomic</i>	Yetti	எட்டி
53	<i>Strychnos potatorum</i>	Therthang Kottai	தேத்தாள் கொட்டை
54	<i>Syzygium cumini</i>	Naval	நாவல்
55	<i>Terminalia belleric</i>	Thandri	தாண்ட்ரி
56	<i>Terminalia arjuna</i>	Ven marudhu	வெண் மருது
57	<i>Toona ciliate</i>	Sandhana vembu	சந்தன வேம்பு
58	<i>Thespesia populnea</i>	Puvarasu	பூஞ்சை
59	<i>Walsuratrifoliata</i>	valsura	வால்குரா
60	<i>Wrightia tinctoria</i>	Veppalai	வெப்பலை
61	<i>Pithecellobium dulce</i>	Kodukkapuli	கொடுக்காப்பழி


 MEMBER SECRETARY
 SEAC - TN



 CHAIRMAN
 SEAC- TN

(Size 6' x5' with Blue Background and White Letters)

—சுரங்கம்

கரங்கங்களில் சூவாரி செயல்பாடுகளுக்கான கற்றுத்தரல் அனுமதி கீழ்க்கண்ட நிபந்தனைகளுக்கு உட்பட்டு வழங்கப்பட்டுள்ளது. எனவே, தேதிபிட்டு, கற்றுத்தரல் அனுமதி _____ தேதி வரை செல்லத்தக்கதாக உள்ளது.

<p>பகைமை பகுதி வளர்ச்சி வேங்கடாடுக்களை அழைக்க திட்டம்</p>	<p>குவாநீயின் எல்லைகளும் சுற்றி வேளி அமைக்க வேண்டும் அழைப்பாளராகியும் ஆழம் தளவாட்டத்திற்குத் துடிக்க வேண்டும் மிகவும் மிகவும் இருக்க வேண்டும் சுற்றுலா மாக ஏற்படாதவாறு அங்கம் பாசிகளை மெற்பொருள் வேண்டும்.</p>
<p>தட்பவெளி பொருத்திக்கப்பட வேண்டிய மரங்கள் எண்ணிக்கை:</p>	<p>வாகனங்கள் செல்லும் பாதையில் மாக ஏற்படாத அளவிற்கு தளவாட்ட முறைப்பாடு தளவாட்ட வாகனங்கள் மூலமாக அவ்வப்போது தெரிக்க வேண்டும். இதற்குள் அளவையும் தர சி மாகப்பாட்டையும் குறைப்பதற்காக குவாநீயின் எல்லைகளும் சுற்றி அடத்தியான பகைமை பகுதியை ஏற்படுத்த வேண்டும்.</p>
<p>அழைக்கத்தில் வெளியுடைய பொருள் நிலவற்றிலும் ஏற்படாதவாறு மற்றும் அங்கம் பற்றிக்கொள்ளும் பாதுகாப்பு நடவடிக்கைகளை உண்டாக்க வேண்டிய வேண்டும்</p>	<p>அழைக்கத்தில் இருந்து ஏற்படும் இடங்களை அளவு 85 செ.மீ. (85A) அளவிற்கு மேல் ஏற்படாதவாறு தகுந்த கட்டுப்பாடுகளை மேல் கொள்ள வேண்டும்.</p>
<p>அங்கம் சட்ட விதிக்க 1990ன் கீழ் அழைக்கத்தில் உண்மை பாசிகளுக்கு தகுந்த பாதுகாப்பு கருவிகள் வழங்குவதோடு கொத்தாழ்வுகள் வழிபாடு வாகனங்கள் செய்யு தர வேண்டும்.</p>	<p>சிறுமம் அல்லது பகுதியை வழிபாடு வாகனங்கள் செல்லும் எல்லைகள் தொடர்ந்து நன்கு பாதுகாக்க வேண்டும். அழைப்பாளிகளால் அழைக்க உண்மை விவசாயம் பாசிகள் மற்றும் நிதிநிலைகள் பாதிக்கப்பட கூடாது.</p>
<p>நிதிநிலைகள் பாதிக்கப்படாமல் இருப்பதை உறுதி செய்யும் வகையில் நிதிநிலை நிதி தரத்தினை தொடர்ந்து கண்காணிக்க வேண்டும். அழைக்கத்திற்கு கனம் பொருட்களை எடுத்துச் செல்லு சிறுமம் மக்களுக்கு எந்த நிதிநிலைகளும் ஏற்படுத்தாதவாறு பாதுகாப்புகளும் மற்றும் அழைக்கம் பாதிக்கவாத வண்ணம் வாகனங்களை இயக்க வேண்டும்.</p>	<p>அழைக்கப்பாளிகள் முடிக்கப்பட வேண்டிய அங்கம் மூடல் திட்டத்தில் உண்மையான அழைக்கத்தினை மூட வேண்டும்.</p>
<p>அங்கம் நடவடிக்கைகளை முடித்துவிட்டு அங்கம் பகுதி மற்றும் அங்கம் நடவடிக்கைகளை இடைபுற ஏற்படக்கூடிய வேறு எந்தப் பகுதியையும் மறுகட்டுமானம் செய்யு தளவாட்டம் விவங்குகள் ஆய்வுமற்றும் வளர்ச்சிக்கு ஏற்ற வகையில் பகைமைப்பகுதியை உருவாக்க வேண்டும்.</p>	<p>முழுமையான நிதிநிலைகளை அறிவ பாசியை (http://parivash.nic.in) எவ்வித இலாபத்திற்குப் பார்க்கவோடும் மேலும் எந்தவித அழைக்கம் சந்தி பாசிகளுக்கு செல்லவோடும் உண்மை அழைக்கம் மற்றும் வள அமைக்கத்தின் ஒருங்கிணைந்த வட்டார அமைப்புகள்: 044 - 28222325 (அல்லது) தமிழ்நாடு மாக கட்டுப்பாடு வாரியத்தின் மாவட்ட அழைக்கம் பொருத்தியான அழைக்கம்.</p>


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